KEY FEATURES



Latest Trending Technologies

Incorporates chapters on trending technologies

Additional Annexures

Information and updates about the latest topics in the field of computers





Project Work

Cross-curricular projects integrating knowledge, principles, and values of various disciplines

Online Links

To access more information on the given topics





Group Discussion

To help the students understand the topics in an interactive manner

Brain Developer & Worksheets

For self assessment of the concepts learnt



Incorporates NEP 2019 Guidelines in Activities and Projects







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PARTS OF A COMPUTER

LEARNING IN THIS CHAPTER

- How does a computer work?
- Parts of a computer

- What makes a computer powerful?
- Disadvantages of a computer

A computer is a useful machine. It is used in almost every sphere of our life. We can play games, write letters, draw pictures, listen to music, store information, solve sums, etc., on a computer. It can work very fast and can do many jobs at the same time.

In the previous class, we learnt about the use of computers in different fields. Let us quickly revise some of them:

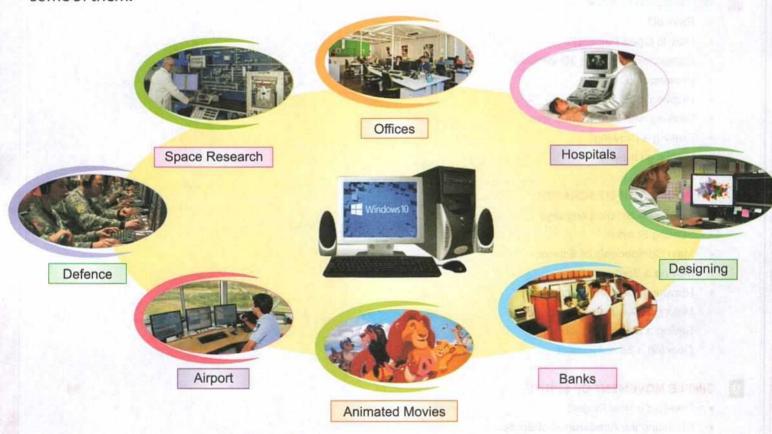


Figure 1.1: Uses of Computer in Different Fields

A computer is one of the greatest inventions of mankind. It performs the following functions:

INPUT	Accepts data given by the user
PROCESSING	Works on data according to the instructions
OUTPUT	Gives the desired results
STORAGE	Stores the information

> HOW DOES A COMPUTER WORK?

Every computer goes through the following three stages:

INPUT

The data and instructions, which we enter using a keyboard or a mouse into a computer, is called **Input**. We can enter numbers, words, pictures or sounds as input.

PROCESSING

After entering the data and instructions in a computer, the CPU works on the input to give us meaningful information. This is called **Processing**.

OUTPUT

The meaningful information that we get after processing is known as Output.

This Input Process Output (IPO) cycle can be understood with the help of an example.



Suppose, you want to calculate the total marks of different subjects on a computer. See, how the processing takes place in a computer.

Charles Babbage is regarded as the 'Father of Computer'.





IBM's first PC was introduced on August 12, 1981. The term 'PC' stands for 'Personal Computer'; making IBM responsible for popularising the term 'PC'.

INPUT

90, 85, 69, 98, 76, 84 +
Data and Instructions
The first step is to input data
and instructions, i.e., marks
and plus (+) symbol.



PROCESS

90 + 85 + 69 + 98 + 76 + 84

Then, the computer works on the data on the basis of given instructions.



OUTPUT

502

The computer gives meaningful information or result as output.

On the basis of the total marks obtained, the teacher calculates the percentage of a student and finds his/her position in the class.

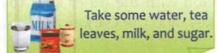
 $\label{likewise} Likewise, we also perform various tasks by following the Input-Process-Output (IPO) cycle.$

Let us understand it through some day-to-day examples.



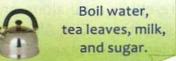
What are the steps that your mother follows when she prepares a cup of tea? Look at the example given below.

INPUT





PROCESS





OUTPUT





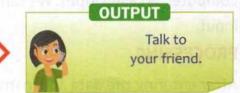
Let us take another example:



What do you do, when you want to talk to your friend on a telephone?







PARTS OF A COMPUTER

A computer has four main parts, which help in performing the IPO cycle.

KEYBOARD

A keyboard is used to type data and instructions into the computer. The commonly used keyboard has 104 keys, which can be divided into many groups based on their functions.

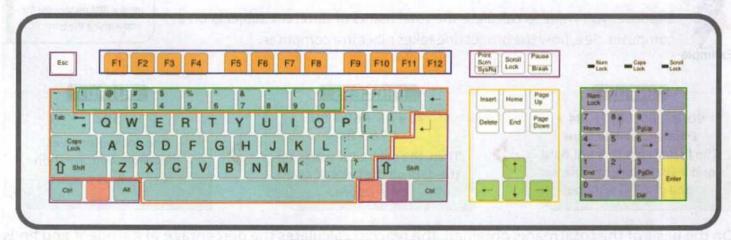


Figure 1.2: Types of Keys

Typing (alphan	umeric) Keys Con	trol Keys	Function Keys
Navigation Key	Nun	neric Keypad	
1. Typing Keys			, numbers (Number keys), ; \$ etc) keys. These keys also

include the Shift, Caps Lock, Spacebar, Backspace, and Tab keys.

These keys are either used alone or in combination with the other keys to perform certain actions. Ctrl, Alt, Windows logo key, and the Esc key are the various examples of Control keys.

3. Function Keys	These keys are used to perform specific tasks. They are placed on the top row of the keyboard and are labelled as F1,F12. These keys have different functions in different programs.
4. Navigation Keys	These keys are used for moving through the documents and editing the text. These keys include the Arrow keys, Home, End, Page Up, Page Down, Delete, and Insert keys.
5. Numeric Keypad	The numeric keypad consists of number keys from 0 to 9, the arithmetic operators and the decimal point, similar to their appearance on a calculator. It is placed on the right side of the keyboard and used for entering numbers at a fast speed.

MONITOR

A monitor looks like a TV screen. It displays the work that we do on a computer. It also displays the results and movement of the mouse pointer on the screen. A monitor is also known as a Visual Display Unit (VDU). The information that we see on a monitor is called soft copy. There are three types of monitors.



- Cathode Rays Tube (CRT) monitor: CRT monitors are big in size and consume more power.
- Liquid Crystal Display (LCD) monitor: They are monitors with flat screens that consume less power.





3. Light-Emitting Diode (LED) monitor: These monitors have better display. They are thinner and lighter in weight. LED monitors use 40% less power than LCDs and last longer. These monitors are in maximum use nowadays.

CENTRAL PROCESSING UNIT (CPU)

It is the brain of a computer that processes all the instructions given to the computer. It does all the calculations and displays the result on the monitor. It also stores a lot of information.

A CPU consists of three main parts. They are - MU, CU, and ALU.





Memory Unit (MU)

In memory unit, we can store information or data according to our need. The information in the memory can be changed and recalled on the screen, whenever needed. The data and instructions are also stored in the memory unit, which are to be processed.

Control Unit (CU)

The control unit works like a traffic policeman. It controls and manages the working of all the parts of a computer.

Arithmetic and Logical Unit (ALU)

The ALU unit performs all the arithmetic calculations, like addition, subtraction, multiplication, and division. It also performs logical operations.

MOUSE

A mouse is a pointing device. It is connected to the CPU by a cable. A mouse usually has two buttons on it. It is used to point, select, and move any object on the screen. When we move a mouse with our hand, a pointer on the screen moves in the same direction. It also helps to draw pictures. Nowadays, the most commonly used mouse is the one that has a scroll wheel in the centre of the two buttons.





Using a Mouse

- Click on Start > scroll down to Paint 3D to open Paint 3D program.
- Select the Oval tool in the 2D shapes menu.
- Now, drag the pointer on the drawing area to draw the oval shape.



The 'All apps' option has been omitted in the Windows 10 Anniversary Edition. Now, you can look for various applications directly by clicking the Start button.



> WHAT MAKES A COMPUTER POWERFUL?

Speed	A computer works very fast and can do a large number of calculations quickly.
Reliability	Computers are quite reliable. They do not make any mistakes.
Storage	A computer can store a large amount of data, which can be used anytime.
Versatility	A computer can perform a variety of tasks and is used in almost all the fields.
Accuracy	A computer always gives correct results. Mistakes are normally done from a user's side.
Diligence	A computer can work for long hours without getting tired.
Multitasking	A computer can do many things at the same time.

DISADVANTAGES OF A COMPUTER

A computer is a useful learning tool, but it has some disadvantages, too. Some of them are as follows:



INTELLIGENCE QUOTIENT (ZERO IQ): A computer does not have an IQ or its own intelligence. By mistake if you enter the incorrect input, it will give the wrong result.

HEALTH: Working on a computer for long hours can affect your eyesight. It can also become the cause of obesity in people.





ELECTRICITY: A computer depends on electricity and cannot work for a long time without it.

COSTLY: It is a costly device.





NOTE

GIGO means Garbage In Garbage Out. It implies that if you enter wrong input, the computer will generate wrong output.



- Computer is a machine that works with data and instructions given by the user. It works on IPO cycle.
- Input is the data and instructions that is entered into a computer.
- A keyboard and mouse are used to enter data and instructions into the computer.
- A keyboard has a different sets of keys. They are-Typing keys, Control keys, Function keys, Navigation keys, and Numeric keypad.
- > A monitor displays all the work that we do on a computer and also shows the output.
- A CPU does all the calculations and displays the result on the monitor.
- > A CPU consists of MU, CU, and ALU.
- An ALU performs all arithmetic calculations and logical operations. A mouse is used to point, select, and move any object on the computer screen.
- > The output printed on a paper using a printer is called the hard copy.



SECTION - A

A. Fill in the blanks.

1.	A computer works w	vithand
2.	A computer can	a large amount of information.
3.	A keyboard has	keys.
4.	A	is used to point, select, and move any object on the computer screen.
5.	The	consists of number keys, arithmetic operators, and the decimal point.
6.	Α	does all the calculations and displays the result on the monitor.
7.	A monitor is also kno	own as a
8.	Α	displays all the work that we do on a computer.

)			kove sve vese	l for more than the con-			
			A to the second second	for moving throu			
HINTS	VDU	Store104	DataNavigation	InstructionsNumeric keypa	Mo ad Mo		
3. Sta	te True or	False.					
							me (
			s known as soft				ore, et a
. A cc	mputer has	four main pa	rts.				
. MU	stands for N	Memory Utilit	у.				mo La
. ACI	PU consists	of AU and LU	ere i e i mir god				2 17
				known as softcopy	v. 175 H		(C)
			he right side of	1 100	di iliyer		
			ine right side of	the keyboard.			lar.92
. Mat	tch the foll	owing.	rolling test of			1670	па).в
	l gi	ive output on	a paper.	3 B	the fullowi	Mouse	
		ever you type an be seen or		•	•	CU	LOS
		afraid of a ca ong tail, can s	t, sit on a mat, send e-mail.	•	•	ALU	
		a part of a CI		•	all seup eniv	Monitor	100
	the a	Control a		•		Printer	K
D. App	olication-b	ased Questic	ons.				
	y is reading			ich part of a comp	uter is she	ensine dop o	o wor
			a computer. Wh a colourful draw	ich computer devi	ce will you	erin	y - y - (m)
	rabh wants to do so?	to type a stor	y using a compu	uter. Which device	should he		
ME					Learning Computers w	Kips 15	

SECTION - B

A.	Multiple-choice	questions.	
1.		can be words	s, numbers, pictures, or sound.
	a. Data	b. Processing	c. Meaningful information
2.	A computer displa	ays	after processing the data.
	a. Input	b. Process	c. Output
3.		keys are used	for moving through the documents or web pages.
	a. Control	b. Function	c. Navigation
4.	The	monitor c	consumes the least amount of power.
	a. LCD	b. CRT	c. LED
5.	certain actions.	keys are either used alo	one or in combination with the other keys to perforn
	a. Control	b. Typing	c. Navigation
В.	Write full form	of the following.	
1.	IPO		5. VDU
2.	CU		6. MU
3.	CPU		7. IQ
4.	ALU		8. LCD
c.	Answer the follo	owing questions.	
1.	What is a compute	er?	E CELORITO CONTRACTOR DE LA CONTRACTOR D
2.	How do you enter	data and instructions into	a computer?
3.	What do you call t	he information, that you en	nter into the computer?



Lausthuro & Laustraanoon	7110121		
List any two features of a computer.			
7.11/588A	3514500.050500.0	2.500	
Mention any two disadvantages of a cor	mputer.		
		10000	
How many types of keys are there on the	e keyboard? Name them.	9007	
		3023335	
194 125	A 19 19 17		
	SECTION	- Veril	
adisa de la compania del compania de la compania del compania de la compania del compania del compania de la compania del compania d		Warbing	600
MY ACTIVITY Learni	ng While Playing	coine	

- A device used to type numbers, letters, or words
- Information we get after processing
- > A unit that stores the information
- The part of a computer that processes all the instructions
- > The information that we see on a monitor

D	K	P	C	Α	S	Υ	Q	R	P	0	M	G
K	Е	Υ	В	0	Α	R	D	Н	N	Е	S	Q
C	Α	R	F	U	L	0	U	Z	G	C	K	Т
Т	Н	0	M	Е	M	0	R	Υ	U	N	1	T
0	R	M	0	Q	N	R	X	S	F	E	Α	W
U	P	E	R	В	ı	L	Т	W	P	K	T	Υ
Т	U	C	F	W	Т	C	N	c	E	W	A	В
P	1	Р	Z	M	0	E	1	J	L	R	D	U
U	S	U	N	Х	R	S	Т	0	R	Α	G	E
Т	В	Н	F	Α	S	0	F	Т	C	0	P	Υ

B. Write the missing Input, Processing and Output for the following machines by using the hints given below.

MACH	MACHINE		PROCESSING	OUTPUT
600	Microwave	Rice and water		Ready to eat
	Juicer	Carrots, oranges	Churning and extracting juice	
	Food Processor	Terla errei erreiteit	Cutting the vegetables	equalification work
	Calculator	Numbers and operating symbols		Calculated answer
	Washing Machine		Washing clothes	Clean clothes
	Toaster	Slices of bread	Heating and grilling	
	Music System		Spinning	Music and songs
	Water Purifier	Plain water	- PARTITION OF THE PART	Clean drinking water

HINTS

Ready juice, Big pieces of vegetables, Calculation, Heating and cooking, Purifies water, Chopped vegetables, Dirty clothes, Music CD, Toasted bread slices.

LAB SESSION

Perfection Through Practice



Open Microsoft Word by clicking on the Start > scroll down to Word 2016.

Arrange the given sentences according to the word COMPUTER and type them in MS Word.

Raise your hand if you need help.

Eat and drink outside the lab.

Press the keyboard keys gently.

Maintain silence.

Come to the lab in a queue.

Obey your teacher's instructions.

Turn your computer off before you leave.

Use devices carefully.

For example:	Fo	re	xa	m	ole:
--------------	----	----	----	---	------

- 1. C Come with clean hands.
- 3. _____
- 4.
- 5.
- 6.
- 7. _____
- 8.

GROUP DISCUSSION

For Concept Clarity

Divide the class into four groups and discuss the topic:

How is the computer useful?



PROJECT WORK

Using Creativity

Make a COLOURFUL COLLAGE on Parts of a Computer and label them.



ONLINE LINKS

Looking For More

- To learn the mouse skills through activities, visit the website: www.mouseprogram.com/practice.html
- To practice various keys, visit the website: http://www.learninggamesforkids.com/keyboarding_games.html
- To learn more about the basic parts of a computer, visit the website: http://www.wartgames.com/themes/tech/computerparts.html



HARDWARE AND SOFTWA

LEARNING IN THIS CHAPTER

Hardware

Software

Students! By now you must have understood that a computer is an amazing machine that can do different types of jobs. It has different parts that work together to form a computer system.

The two basic parts of a computer system are:

HARDWARE

SOFTWARE

HARDWARE

The physical parts of a computer that you can touch and feel are called Hardware.

A human body consists of different parts. The outer parts of a body are visible, but the parts, like brain, lungs, heart, etc., which are inside, cannot be seen. Similarly, in a computer, we can see the parts of the hardware that are outside, e.g., monitor, keyboard, etc. They are attached to the CPU by cables. Some parts of hardware are inside the CPU. You can see them only when you open the CPU box, e.g., hard disk, CPU chip, etc.

The hardware of a computer is further classified into three parts-Input, Output, and Storage devices.

INPUT DEVICES

There are special types of hardware devices that are used to input words, numbers, sound, or pictures into a computer. These are called Input devices, e.g., keyboard, mouse, joystick, microphone, etc.



It has a ball on its top. To move the pointer on the screen, roll the ball with your finger.



Microphone

A microphone is used to give our voice and other sounds as input to the computer.



Scanner

A scanner copies a picture or text printed on a paper into the computer.

INPUT DEVICES

It looks like a pen that can be used on a special pad. Whatever you write on this pad can be seen on the monitor.



Web Camera

It is primarily used to share pictures and have live chat with our friends and relatives using the Internet.



Joystick

It is used for playing games. It helps to move the items on the screen.



OUTPUT DEVICES

The devices that display the information and results are called the **Output** devices, e.g., monitor, printer, etc.

Monitor



A monitor looks like a
TV screen. Whatever
you type on the
keyboard can be seen
on the monitor. It also
displays the processed
information.

Printer



It prints the output that you see on the computer screen on paper.

Speaker



Speakers are used to hear music and sounds stored in a computer.

Fact File



Alan Turing is known for his contribution towards modern computers. He is considered as the Father of Modern computers.

Quick Quiz

Which part of our body acts as an input unit?

STORAGE DEVICES

The devices used for storing data are called **Storage** devices. Hard disk is the main storage device, which stores the entire work that we do on a computer. Some other important devices, like CD, Pen drive, and DVD are also used to store information.

CD



CD stands for Compact Disk. It is a round, flat, and shiny disk that stores a lot of information.

Hard Disk



It is a device that stores a huge amount of data and information. It is present inside the CPU box.

Pen Drive



It is very small in size, but can store and transfer a lot of data from one computer to another. Due to its small size, it can be handled easily.

Fact File



Lady Ada Lovelace is regarded as the first computer programmer.

SOFTWARE

Software is that part of a computer, which cannot be touched. To make the hardware work, we need to have software in the system.

Know the Fact



Intel is the world's largest processor-making company. Let us understand software with the help of the following examples:

Students! All of you must have seen and used a music system. The parts, like speakers, CD, and DVD, etc., which you can touch are hardware. Can you touch the songs or music recorded on a CD or DVD? No, because that is Software.



Figure 2.1: Music System

Example A CD is hardware, but the songs or movies stored in it are software, as they cannot be touched.

Likewise, a TV is hardware but the programmes that you watch on it are software.

Let us go back to the working of a computer. Which of the following step is done by software?

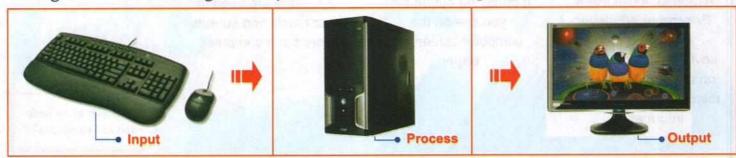


Figure 2.2: Working of a Computer

Yes! Processing is done by software. It takes the input from the user, processes it, and displays the output on the monitor.

Thus, we can define, software as a set of instructions given to the computer to do a particular work.

There are two types of software:

System Software

Application Software

SYSTEM SOFTWARE

It is a set of programs that controls the overall working of a computer.

Operating system is a part of system software that makes a computer run. It manages all the input and output operations. It also manages the link between the different parts of a computer and the user. Let us understand the operating system with the help of an example.

Let us take the example of a car. It has petrol, engine, and wheels.

But, it is not moving. When will the car move?

It will move only when the DRIVER starts it.

So, the DRIVER is the OPERATOR of the car.

Example Similarly, an Operating System is the DRIVER of a computer, which makes it run. Without an Operating System, a computer cannot work.





Microsoft Disk Operating System (MS DOS), Windows XP, Windows 7, Windows 8, Windows 10, UNIX, LINUX, and Mac OS are the examples of some popular operating systems.

Functions of Operating System

- > It controls the overall working of the Input and Output (I/O) devices.
- > It provides the login password to prevent the misuse of a computer.
- > It keeps a track of information regarding creation, deletion, transfer, and copying of files.
- > It helps to run the Application software, like Paint 3D, MS Word, Scratch, etc.
- > It allocates memory to various programs whenever required.

APPLICATION SOFTWARE

The software that helps you to do a specific type of work is called **Application** software. Let us understand this with the help of an example.



What can you do with a juicer in your house? You can only extract juice of fruits and vegetables with it. It indicates that you can do only a specific type of job with this machine.



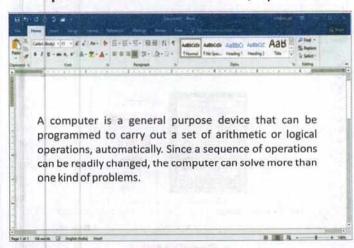
There are different types of application software that help in doing specific types of jobs. Let us have a look at some of the application software:

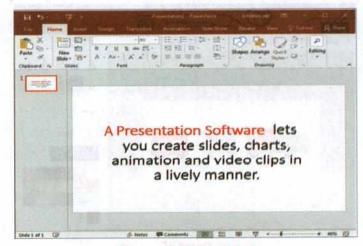
Word Processing Software: A word processor helps you to create professional looking documents, quickly and efficiently. It provides many features to change the appearance of text in a desired manner.

Examples: Microsoft Word, WordPad, OpenOffice.org Writer, etc.

Presentation Software: It lets you create slides, charts, animation, and video clips in a lively manner.

Examples: Microsoft PowerPoint, OpenOffice.org Impress, Adobe Flash, etc.





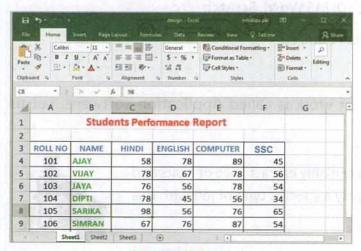
Microsoft Word

Spreadsheet: A spreadsheet program helps you to perform calculations and display data in the form of a chart to analyse in a better way.

Examples: Microsoft Excel, Lotus 123, Openoffice.org Calc, etc.

Multimedia Software: It is used to create videos, animations, sounds, graphics, and text with a high degree of interaction.

Examples: Games software, Windows Media Player, Windows Movie Maker, etc.



Conty, Cont State lage

Microsoft Excel

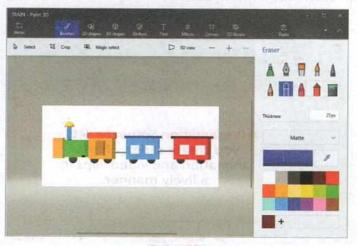
Games

Graphics Software: This software is used to create images, such as charts, graphs, photographs, logos, cartoons, and much more.

Examples: Paint 3D, Photoshop, AutoCad, Dreamweaver, etc.

Desktop Publishing Software: This application helps you to combine both text and graphic features to design professional documents, like newsletters, books, magazines, etc.

Examples: CorelDRAW, Adobe InDesign, QuarkXPress, etc.



Paint 3D



CorelDRAW

Learning Computers with KIPS 25

- > The two basic parts of a computer are—Hardware and Software.
- > The physical parts of a computer that you can touch are called hardware.
- A set of instructions given to the computer to do a particular work is called software.
- > System software is a set of programs that controls the overall working of a computer.
- > The software that is designed to do a specific type of work is called Application software.



SECTION - A

A.	Fill in the blanks.	
1.	The parts of a computer that can be touched are called	HINTS
2.	The devices used for storing data are called devices.	SoftwareHardware
3.	The devices that give results after processing are calleddevices.	 Operating system
4.	A set of instructions given to a computer to do a particular work is called	StorageOutput
5.	The manages the overall working of a computer.	
B.	State True or False.	
1.	The software that can do a specific type of work is called System software.	
2.	A scanner is an input device.	galair a la r
3.	The Paint 3D program is used for drawing pictures.	
4.	A printer is an output device.	
5.	The devices that give us output are called input devices.	TEWDREN IN
c.	Application-based questions.	
1.	Ayush wants to record a song in the computer. Which input device can he use?	obsortages si W G
2.	Sheena wants to draw a greeting card using a specific software. Which type of softw	vare will she use?

D.	Match the following.		
	Input device	Printer	
	Data	Hard disk	
	Storage device	Songs	
	Hardware	90+85+69+98+76+84	
	Software	Keyboard	
	SE	CTION - B	
A.	Name the device used for each of the fo	ollowing jobs.	
1.	A device commonly used for playing games		
2	A device used to store huge amount of data a	and information	
	3.000		
5.	A device that can read words, pictures, or num paper and store them in a computer	imbers from	
4.	A device that is used to hear sounds and mus computer	sic stored in a	aparti
B.	Answer the following questions.		
1.	Define the term software. Name its types.		
		SATIST TO SULL	38836
	COLONOTOR TIBLE (COL	hwore that candon sheems by the concessor.	o Arti
2.	What is a storage device? Give any one example	e. aspectogramasness	
			64320
		entration de tres et la company de tres et l	Hillia 8.
3.	Which hardware devices are used to enter wor	rds, numbers, or pictures?	
			WINGS.
4.	Which application software is used for typing a	and making corrections in the text?	
5.	Name the program used for performing calculate	ations.	

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Learning While Playing



A. Complete the crossword puzzle using the hints given below.



				1	1.										
					S										
													2 2 1		
														2.	
5.	L			Н	Т			N						C	
3.	0	L			Α		1			S		S		M	
			4.	W		В		Α			R			A	
				331										D	
									6.	P		N		1	E
														K	

- 1. I am a part of a computer that cannot be touched.....
- 2. I am a round, flat, and shiny disk that is used to store a lot of information.....
- 3. I am a part of the system software that makes a computer run
- 4. I am used to share pictures and have live chat.....
- 5. I look like a pen and am used to write on a special pad _____
- 6. I am small in size and can transfer data from one computer to another......

B. Name the devices and place them in correct columns.



Input	Output	Storage
marian same	ninski i kalisidavi	ndisolidatanis.

LAB SESSION

Perfection Through Practice



- Make a list of hardware devices that you see in your computer lab. Classify them into Input, Output, and Storage devices.
- Make a list of different types of application software and write about their usage in one line each.
- Open the Calculator software by selecting the Start > scroll down to Calculator.
 Solve the following:

		.9.	
(i)	25*45		est 25
(ii)	52/4		
(iii)	14 * 5		
(iv)	582 - 287		
(iv)	582 - 287		



GROUP DISCUSSION

789 + 649

(v)

For Concept Clarity

- Conduct a group discussion on the topic: Input and output devices.
 Ask the students to support the discussion by giving real-life examples.
- Divide the class into four groups and discuss with them the topic,
 Types of Software.



PROJECT WORK

Using Creativity

- Make a COLOURFUL chart or collage on the topic Hardware Devices.
- Draw any four hardware devices and write a few lines about them.



ONLINE LINKS

Looking For More

Visit the following websites to perform activities on hardware devices:

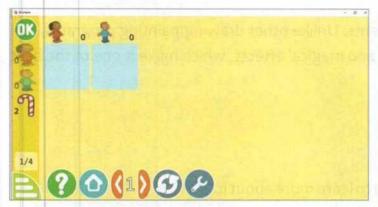
- www.ictspecialist.com/io-facts.html
- www.ictspecialist.com/hardsoft.html
- www.ictspecialist.com/peripherals.html





Activity-1

- Open GCompris educational software.
- Select Top Menu > Mathematics > Share pieces of candy activity.
- Drag and drop the characters on the screen.
- > To divide the candies equally, drag and drop equal number of candies in the boxes.
- Click on Ok to check the result.

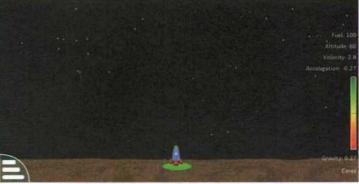




Activity-2

- From the Top menu select > Land Safe activity.
- > The Tux Ship will move, use up and down cursor keys to control the thrust.
- > To control the direction of Tux's Ship use the right and left arrow key.
- > The landing platform turns green when the velocity is safe to land.
- Make sure the Tux Ship lands on the landing platform safely.





TUX PAINT

LEARNING IN THIS CHAPTER How to open Tux Paint? Pattern brush shapes Magic tools Pagin brush shapes Magic tools

> TUX PAINT

Tux Paint is an amazing drawing program for students. Unlike other drawing/painting programs, Tux Paint has a lot of creative tools, funny animations, and magical effects, which make it one of the best drawing software available.

Some of its unique features are:

- Tux Paint is a free software.
- Tux Paint has a drawing mascot, which helps you to learn more about it.
- A large variety of tools help the students to create beautiful designs.
- We can add personalised stamps to our drawing.
- > Funny sound effects are played when we select any tool in Tux Paint.
- We can load and save images directly as thumbnails without using any file name in Tux Paint.

> HOW TO OPEN TUX PAINT?

Select the Start button > Tux Paint > Tux Paint (Full Screen).

When you open Tux Paint, it displays two modes: Windowed and Full screen. Selecting the Full Screen Mode will not display the Title bar.

- You can now see the welcome screen of Tux Paint.
- After the welcome screen, you will get the opening screen of Tux Paint.

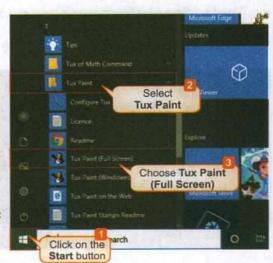


Figure 3.1: Starting Tux Paint



Figure 3.2: Welcome Screen of Tux Paint

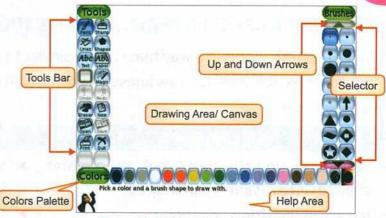


Figure 3.3: First Window of Tux Paint

PAINT BRUSH SHAPES

Tux Paint gives us an option to draw beautiful patterns using the Paint tool . Let us see how many beautiful patterns we can make.



Figure 3.4: Using Paint Brush Shapes

VINE BRUSH

- Select the Paint tool . Now, you will see the Brushes sub-toolbox on the right hand side. Select the filled circle shape and choose brown colour from the palette. Draw the trunk of a tree.
- Scroll down and select the Vine brush from the Brushes sub-tool

box. Now, select green colour from the Colors palette.

- Move the pointer to the drawing area and draw the leaves by clicking on the trunk. You will see a beautiful tree as shown in Figure 3.4.
- Similarly, select other brush shapes and see how many different patterns you can draw.

HAZE BRUSH

Haze brush is a unique sub-tool that produces a hazy appearance. We can use it to draw objects that are far away.

- > Select the Paint tool , then choose the required colours to draw mountains, Sun, and river.
- Now, select the Haze brush and select light blue colour. Draw a few clouds in the sky. Similarly, select green colour and draw bushes as shown in Figure 3.5.

Fact File

Bill Kendrick
The lead developer and designer of Tux Paint.

Let's Know More

You can add more colours by clicking on the last option of the Colors palette. After clicking it, you will get Pick a Color box on the screen. Select any colour of your choice and click the Back button to go back to the main screen and use the selected colour.

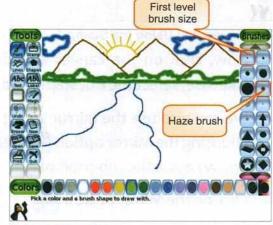


Figure 3.5: Using Haze Brush

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DIFFERENCE BETWEEN PAINT AND LINES TOOL

The Lines tool works in a way that is quite similar to the Paint tool. It has the same brush shapes in the sub-tool box. It is used to draw lines and patterns. The difference between the Lines tool and Paint tool is as follows:

Paint Tool Lines Tool

- While selecting the Paint tool, the pointer changes into a Paint brush shape.
- It is a free-hand drawing tool.
- The selected brush type pattern is directly drawn on the canvas.
- When Lines tool is selected, the pointer changes into cross hair (+) symbol.
- It draws only in the form of straight line.
- The pattern appears on canvas only after you complete the line and release the mouse button.

> STAMP TOOL

It is an interesting tool, which you have already used in your previous class. This tool is used to add ready-made images as stamps. Tux Paint already has some inbuilt stamps. Additional stamps can be downloaded from the following website: www.tuxpaint.org/download/windows

Further, select the link: tuxpaint-stamp-2009.06.28-win32-installer.exe

On installing the stamps file, we can see various categories of stamps in the sub-toolbox.



- Click on the Stamp tool in the Tools bar.
- Choose any one stamp from the Stamp sub-toolbox. To have more stamps, click either on the Left (or Right arrow). Select the Cock stamp.
- You can also increase and decrease the size of the stamp using the Slope bar just above the Colors palette in the sub-toolbox.

Figure 3.6: Using the Stamp Tool

- Now, click on the canvas and the stamp will be pasted. Likewise, select the Hut stamp and paste it on the canvas.
- > We can also use the mirror image of the selected stamp by choosing the Mirror option below the right and left arrow keys in the sub-toolbox.
- Click on the Mirror button 👩
- Now, paste the selected stamp besides the previous stamp.



Figure 3.7: Using the Mirror Option



MAGIC TOOLS

In Tux Paint, there are various magic effects that allow you to draw wonderful patterns. Let us learn about some of the pattern effects in Magic tool.

MOSAIC EFFECT

The mosaic effect tool is used to apply a pattern of many small coloured pieces of stones on the canvas.

- Open a new canvas and draw a sunset scene or you can select any coloured background.
- Click the Magic tool and select the Mosaic effect on the Selector.
- > Bring the magic wand to the canvas and click on it.
- The canvas will be filled with mosaic effect. Clicking it further will change its colour.

KALEIDOSCOPE EFFECT

This tool is used to create free-hand patterns. The most amazing feature of this tool is that even if we move the magic wand from a single point, it draws from all the four directions. Let us learn how to use it.

- Select the green background. Now, click on the Magic tool and select Kaleidoscope effect from the Selector.
- Pick yellow colour and bring the magic wand on the canvas.
- Now, click and drag the mouse as you wish.

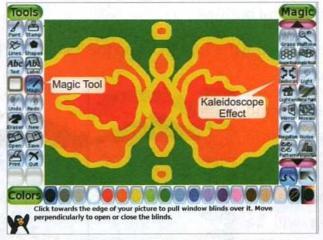


Figure 3.9: Using the Kaleidoscope Effect

A pattern will start appearing on the canvas. After designing the pattern, fill colour in it.

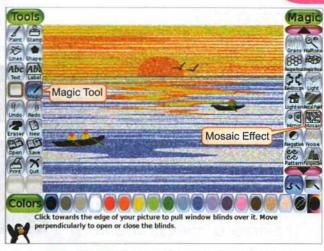


Figure 3.8: Using the Mosaic Effect

Let's Know More

Tux Paint supports vector graphics, which means that you can draw images that can be zoomed up to 100 times their original size without compromising on the quality of the image.

Let's Know More

Fold Effect

If you want to apply the fold effect on your drawing, use the Fold subtool follows:

Let's Know More

Rosette Effect

This magic tool is used to draw a pattern in the shape of a rose.

Let's Know More

Ripples Effect

Applying this magic tool makes an object look wavy in a circular pattern.



EMBOSS EFFECT

This magic tool gives a raised effect to an object from the surface that you have drawn.

- Select the Emboss effect from the Selector.
- Bring the magic wand over the image on the canvas and drag the mouse to emboss the image.

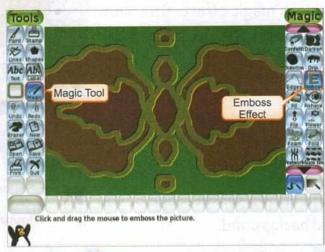


Figure 3.10: Using the Emboss Effect

Know the Fact

Tux Paint is translated in 129 languages. Many Indians have participated actively in the translation process of Tux Paint into the languages of Indian origin.

Ankit Malik - Hindi Ravishankar Ayyakkannu -Tamil Kartik Mistry - Gujarati Pavithran Shakamusi -Telugu

si silawai nowa u fina spiri la picina

Observe the change in the image.

> RAINBOW EFFECT

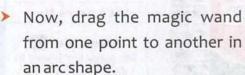
In the sub tools of Magic tool, there are two types of Rainbow effect tools.

RAINBOW EFFECT : It draws a trail of rainbow colours as you drag the magic wand on the drawing area.

REAL RAINBOW : It allows you to draw a rainbow just like the one you see in the sky after rainfall.

Let us try both the effects on our drawing.

Select the Magic tool from the Tools bar and the Rainbow effect from the sub-toolbox.



- As you move the mouse, a trail of rainbow colours will be drawn.
- Now, select the Real Rainbow effect.
- Choose a single point on the drawing area.

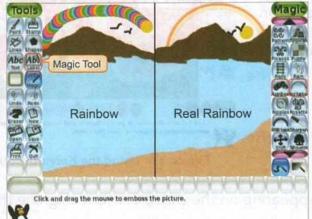


Figure 3.11: Using Rainbow and Real Rainbow Effect

Know the Fact

There are 47 different background colours/pictures with which you can start a new drawing in Tux Paint.

Let's Know More

Noise effect is used to add grainy look to an image by adding random variations in the brightness or in the colour of an image.

- Click and drag the wand from one end to the other.
- Release the mouse and you will see a real rainbow on your canvas.

You can add the other effects using Magic tools in the same way.

> PRINTING A DRAWING

Tux Paint allows you to print your drawing on a paper.

- > Open the drawing that you want to print.
- > Select the Print tool in the Tools bar.
- Abox appears on the screen.
- Click on Yes to print.

You have learnt almost everything about the **Tux Paint**, and its various tools. Draw more pictures by applying new effects and ideas for better understanding of the tools.



Figure 3.12: Printing a Drawing



Let us draw a scenery on a new blank canvas.

- > Open a new file with green background.
- Select the Paint tool . Choose blue colour to draw the pond. Now, select the Magic tool and then choose Fill tool. Click on the pond to fill it with blue colour.
- Now, select the Grass effect and choose dark green colour. Draw some grass on the ground.
- Apply noise effect to the pond by using the Noise effect from the Magic sub-toolbox
 .
- ➤ Now, choose the Flower tool ★ and draw flowers of different colours.
- Select the Paint tool . Draw the trunk of trees and fill brown colour in them. Pick the Vine tool from the Brushes section. Draw the upper part of the tree as shown in the figure.
- Add cherries on the trees by using the Stamp tool stamp.
- > Add two Gander birds by using the Stamp tool.
- Now, select the Starfish shape from the Brushes section of the Paint tool.





- > Tux Paint gives us an option to draw beautiful patterns using the Paint tool.
- > Haze brush is a unique sub-tool that produces a hazy appearance.
- > Stamp tool is used to add ready-made images as stamps.
- > The Mosaic tool is used to apply a pattern of many small coloured pieces of stones on the canvas.
- > Kaleidoscope tool is used to create free-hand patterns.
- > Emboss tool gives a raised effect to an object from the surface that you have drawn.



SECTION - A

A.	Fill in the blanks.
1.	Theis used to draw free-hand drawings.
2.	We can create a mirror image of a stamp using thebutton.
3.	tool gives the raised effect to an object from the surface that you have drawn.
4.	Tux Paint has been translated in languages.
5.	Thetool is used to apply a pattern of many small coloured pieces of stones.
Н	NTS Emboss 129 Mosaic Paint Mirror
В.	State True or False.
1.	Tux Paint is a free software.
2.	When you select the Lines tool, the pointer changes into brush shape.
3.	Stamp tool is used to add ready-made images as stamps.
4.	Mosaic effect lightens the colour of an object.
5.	Tux Paint provides 48 different background colours or pictures.



SECTION - B

Diusini:	s used to draw objects that are far away.	
a. Vine	b. Haze	c. Emboss
is the le	ead developer and designer of Tux Paint.	
a. Mark Zuckerberg	b. Bill Kendrick	c. Bill Gates
Which of the following tools is	used to create free-hand patterns?	
a. Kaleidoscope	b. Emboss	c. Drip
When Lines tool is selected, t	he pointer changes into	symbol.
a.*	b.+	c.\$
Thec drawing area.	lraws a trail of rainbow colours as you	u drag the magic wand or
a. Mosaic effect	b. Rainbow effect	c. Real rainbo
Answer the following que	estions.	
Answer the following que		shvarbfulkterade: may
List any two features of Tux F	Paint.	elwsabfulkiensoe: assw
	Paint.	elwsabluktersoer answ
List any two features of Tux F	Paint.	
List any two features of Tux F Explain the use of Mosaic effe	Paint.	alvsable karede. 1884

C. Match the following.



SECTION

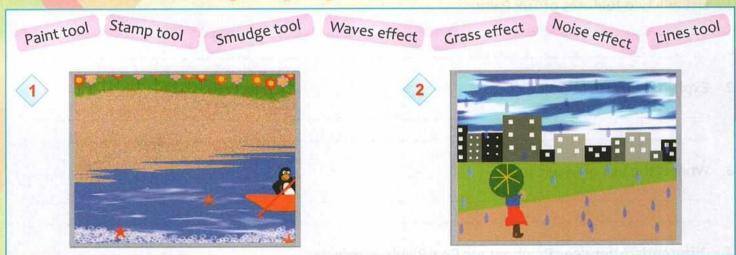
MY ACTIVITY

Learning While Playing





Draw these beautiful drawings using the given tools.



GROUP DISCUSSION

For Concept Clarity

Discuss the given topics with the students: Mosaic effect vs Emboss effect.



ONLINE LINK

Looking For More

To learn more about magic effect tools, visit: http://tuxpaint.org/features



UNDERSTANDING WINDOWS 10

LEARNING IN THIS CHAPTER

- Features of Windows 10
- Windows Taskbar
- Selecting and deselecting Icon, Opening a Program
- Arranging and Sorting the desktop Icons
- Changing the desktop background and Screensaver
- Mouse Pointer shapes
- Shutting down your computer

Tell me students, who takes care of all the household work at your home? Yes! You guessed it right. Your parents! They look after all the household work in such a manner that you do not have to worry about anything. It is because they run the house with a system. Imagine if your parents go away for sometime and you have to manage the house, what will you do? You will surely find it difficult to manage the daily chores of the house.

In the same way, a computer has a special set of programs, which manages all the jobs of a computer and makes it run. This is known as the **Operating System**.

Windows is an operating system. Without it, we cannot even start a computer or work on it.

Now again, tell me students, when we use the word "window", which image comes to your mind? Yes! It is the glass window through which we can peep outside and see various things. Likewise, in computers, Windows is a program that shows different programs on the screen.



Figure 4.1: Windows 10 Desktop

> FEATURES OF WINDOWS 10

- Windows 10 is more attractive, with a complete set of new pictures, themes, and icons.
- The best features of both Windows 7 and Windows 8 have been included in Windows 10.
- It has an improved Search tool Cortana, which helps you to find information on your system or on the web directly. You can even give voice commands to this Search tool.
- > It has a new 'Task View' button to the right of the search box, on the taskbar. This button provides the ability to open multiple desktops at the same time.
- Windows 10 provides a Windows Store application where you can get a lot of free apps, games, and songs.

When we switch on a computer, Windows starts automatically. The first screen that appears with labelled pictures on it, is called **Desktop**.

ICONS

The small labelled pictures or symbols present on the desktop are called **Icons**. These icons are used to open specific programs or documents.

Let us understand the concept of icons and desktop with the help of an example.



When you go to the kitchen and open a cupboard, you find various labelled boxes, containing different items. The cupboard works like Windows and the labelled boxes work like icons.

Fact File



William (Bill) H. Gates
He is the founder of
Microsoft corporation;
the world's leading
software company.

WINDOWS TASKBAR

The Taskbar is a long horizontal bar located at the bottom of the desktop. It is divided into the following sections:

THE START BUTTON

The Start button is present at the bottom left corner of the Taskbar. When you click on the **Start** button, a list of options appears. This list is called the **Start** menu.



You can use the **Start** button to perform common tasks, such as starting a program, searching files and folders, shutting down the computer, and much more.

You can find File Explorer, Settings, and a list of the most used apps on the left side of the Start menu.

MIDDLE SECTION

The middle section of the bar shows the opened programs as buttons. Here you can add commonly used programs, such as the Internet Explorer, Word program, Windows media player, etc. They can be opened with a single click. When a program is active, its icon is highlighted in a lighter shade with a bar below it.

NOTIFICATION AREA

The right side of the taskbar is known as the **Notification Area**, which includes a clock and a group of icons that tell the status and notifications about the programs running on a computer. For example, software updates, network connectivity, battery, volume, etc.

Let's Know More

The **Start** menu can also be opened by pressing Windows key a on the keyboard.

Quick View

You can also activate Task
View by pressing the
Windows logo key + Tab
key on your keyboard.

Quick View

Press Windows logo + D key combination to minimise all the open windows.



The **Peek** button is present on the extreme right of the taskbar. Click this button to minimise all the open program windows and view the desktop.



MOVING THE TASKBAR

The Taskbar can be moved to any of the four sides of the Desktop.

To move the Taskbar, take the following steps:

- Place the pointer on the blank area of the Taskbar.
- Press and hold the left mouse button, and drag the taskbar to any side of the desktop.
- Now, release the mouse button.



Figure 4.3: Moving the Taskbar

LOCKING THE TASKBAR

You can lock the Taskbar, that means it will not move to any place until you unlock it.

- Right-click on the blank area of the Taskbar.
- Click on the Lock the taskbar option in the Shortcut menu.
- > You will notice that the taskbar will not move from its location.



Figure 4.4: Locking the Taskbar

SELECTING AND DESELECTING ICON

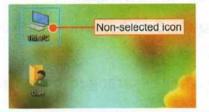
SELECTING AN ICON

- To select any icon, simply click on it.
- It will be highlighted.



DESELECTING AN ICON

- To deselect the icon, click away from the icon.
- The icon will now be displayed in its original form.



> SELECTING ADJACENT AND NON ADJACENT ITEMS

SELECTING ADJACENT ITEMS

- Left-click on the first item to be selected.
- Hold down the Shift key and click on the last item to be selected.
- Release the Shift key. All the adjacent items will be selected.

SELECTING NON ADJACENT ITEMS

- Hold down the Control (Ctrl) key.
- Click on each of the items to be selected, oneby-one.
- In this way, you will be able to select the nonadjacent items.

> OPENING A PROGRAM

Click the icon, which you want to select and press the Enter key. The application window will open.

Or

Double-click the left mouse button on the icon to open it.

ARRANGING THE DESKTOP ICONS

As you arrange your study desk to make it tidy, similarly, you can arrange the icons on the desktop to give it a better look. To do this:

- > Right-click on the blank area of the desktop.
- You will find a list of options.
- > Select the View option.
- Click the Auto arrange icons option from the sub menu.
- > Observe the changes.

View Sort by Refresh Paste Paste Paste shortcut New Display settings Personalize Large icons Medium icons Small icons Auto arrange icons Align icons to grid Show desktop icons

Figure 4.5: Arranging the Icons

> SORTING THE ICONS

Sorting the desktop items means arranging them in a proper order.

- Right-click on the blank area of the desktop.
- A Shortcut menu will appear.
- Point to the Sort by option and click the Size suboption.
- The icons will be arranged in the increasing order of the file size.

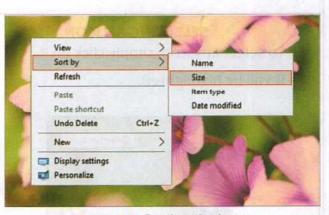


Figure 4.6: Sorting the Icons

CHANGING THE DESKTOP BACKGROUND

You can change the appearance of the desktop background according to your choice in the following way:

- Right-click on the blank area of the desktop.
- You will find the list of options. This is called Shortcut menu.
- Select the Personalize option.
- > The PERSONALIZATION window will appear.
- By default the Background option is selected and preview of the current background is displayed in the right pane.



Figure 4.7: Changing Desktop Background

Click on the drop-down arrow of the Background list box and select any option (Picture, Solid Colour, Slideshow) from the displayed list.



Figure 4.8: Changing Wallpaper

- Select any picture from the 'Choose your picture' section or click on the Browse button to get more options for the pictures from your computer.
- Select any layout for the background from the Choose a fit list box.
- A preview of the selected background will appear in the 'Preview' section.
- The selected picture will be set as the desktop background.

CHANGING THE SCREEN SAVER

The **Screen Saver** is an image, which pops up on the computer screen whenever a computer is left idle for a certain period of time. By pressing any key or moving the mouse, you can again get back to the normal screen. Follow the given steps to change the screen saver:

- > Right-click in the blank area of the desktop.
- Click on the Personalize option from the Shortcut menu.



- The PERSONALIZATION window will appear.
- Select the Lock screen option from the left pane.
- > Select Screen saver settings option from the right pane.
- > The Screen Saver Settings dialog box will appear.
- Click on the drop-down arrow in the Screen saver section and select any screen saver of your choice.
- A mini preview of the screen saver will be displayed in the Preview box.
- To watch the preview on full screen, click the Preview tab.
- You will get the preview of the selected screen saver on the full screen.

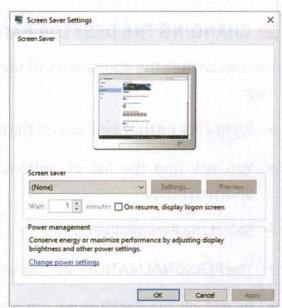


Figure 4.9: Changing Screen Saver

- Move the mouse to get back to the Screen Saver Settings window.
- Set the time in Wait box as per your need. Use the up arrow to increase the time and the down arrow to decrease.
- > Click OK.

NOTE You can even get to the Screen Saver Settings directly by typing 'Screen Saver' in the search box placed on the taskbar. Select the Change screen saver from the displayed options, the Screen Saver Settings dialog box will open.

Know the Fact

When a computer is switched on, Windows take a few seconds to load an Operating System. This process of loading the OS is called **Booting**.

MOUSE POINTER SHAPES

The shape of the mouse pointer changes according to the actions we perform.

BUSY NORMAL It means that computer is busy and This arrow is for pointing, selecting, and wants you to wait. dragging the items on the screen. DOUBLE-HEADED ARROW FOUR-HEADED ARROW This arrow is for moving pictures and This arrow is for resizing the window or pictures. toolbars. **WORKING IN BACKGROUND** BEAM It means that the computer is processing This icon is for inserting the text in a while you are working. document.



SHUT DOWN YOUR COMPUTER

Shutting down means, turning off a computer. To shut down your system, follow the given steps:

- Click on the Start button ...
- Now, click on the **Power** button
- Select the Shut down option.
- The system will take a few seconds to shut down.

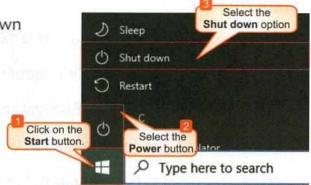


Figure 4.10: Shutting Down a Computer

- Windows is an operating system that controls and manages the functions of a computer.
- The small labelled pictures on the desktop are known as icons.
- The Start button is used to perform common tasks, such as starting a program, searching files and folders, and much more.
- Notification Area is present on the right side of the taskbar. It includes a clock and a group of icons. >
- Double-clicking the left mouse button on the icon opens the selected item.
- Screen Saver is an image, which pops up on the screen, whenever a computer remains idle for a short time.



SECTION - A

A. Fill in the blanks.

1.	Theis the first screen of Windows, which appears when the computer is switched on.
2.	application provides paid and free games, apps and songs.
3.	Theis a long horizontal bar at the bottom of the desktop.
4.	The right side of the Taskbar contains the
5.	button provides the ability to open multiple desktops at the same time.
6.	The advanced search tool of Windows 10 is called



Notification Area

Desktop

Taskbar

Task View

Cortana

Windows Store



В.	State True or False.				
1.	The clock is present on the left	side of the Taskbar.	in the resolution of the company states and the company states and the company states are t		
2.	The start button is found on the left side of the Taskbar.				
3.	When a program is active, its ic	con is highlighted in a brigh	ter shade with a bar below it.		
	Peek button is present on the	100 5-10			
	To change the desktop backgr		ink area of the deskton		
	Application-based question	UBIRI I	mixured of the desktop.		
1.	Adarsh wants to arrange all to do so.	the icons on the desktop	in alphabetical order. Suggest him the wa		
2.	Karan is working on many app taskbar and all the open windo		. By mistake, he has clicked somewhere on th h button has Karan clicked on?		
		SECTION - E	nanotni Lauroni represidente del como d		
A.	Multiple-choice questions				
1.	Which program manages all the jobs of a computer?				
	a. Operating System	b. Desktop	c. Screen Saver		
2.	To arrange the icons on the d	esktop,	click on the blank area.		
	a. Left	b. Right	c. Double		
3.	Pressing Windows key + D co	mbination,	all the open windows.		
	a. Maximizes	b. Closes	c. Minimizes		
4.	To open the Start menu, pres	s the	key.		
	a. Ctrl	b. Windows	c. Alt		
В.	Name the mouse pointers	, which perform the fo	llowing actions.		
1.	For pointing, selecting, and dr	agging an item.	The right side of the Taskbar contains the		
2.	For resizing the pictures.		entivere no but L		
3.	It indicates that you have to w	ait because the computer i	s busy.		
4.	For moving pictures and toolb	ars.	HARAYN - BARNOL REPAIR		

Learning Computers with KIPS 46

Name the option that displays all the apps and programs in the computer. Write the shortcut key combination to activate Task View. Answer the following questions. Define the term Windows. What is Desktop? What is a Taskbar? Write any two features of Windows 10. Briefly explain the use of Start button.	C.	Answer in one word.		
1. Define the term Windows. 2. What is Desktop? 3. What is a Taskbar? 4. Write any two features of Windows 10. 5. Briefly explain the use of Start button.	1.	Name the term used for the process of loading operating system.		
4. Write the shortcut key combination to activate Task View. D. Answer the following questions. Define the term Windows. What is Desktop? What is a Taskbar? 4. Write any two features of Windows 10. Briefly explain the use of Start button.	2.	Name the box that displays the preview of the Screen Saver.		
D. Answer the following questions. 1. Define the term Windows. 2. What is Desktop? 3. What is a Taskbar? 4. Write any two features of Windows 10. 5. Briefly explain the use of Start button.	3.	Name the option that displays all the apps and programs in the con	nputer.	41,7 1 4 2 1
1. Define the term Windows. 2. What is Desktop? 3. What is a Taskbar? 4. Write any two features of Windows 10. 5. Briefly explain the use of Start button.	4.	Write the shortcut key combination to activate Task View.		Jeres
1. Define the term Windows. 2. What is Desktop? 3. What is a Taskbar? 4. Write any two features of Windows 10. 5. Briefly explain the use of Start button.			w 1	
2. What is Desktop? 3. What is a Taskbar? 4. Write any two features of Windows 10. 5. Briefly explain the use of Start button.	D.	Answer the following questions.		
2. What is Desktop? 3. What is a Taskbar? 4. Write any two features of Windows 10. 5. Briefly explain the use of Start button.	1	Define the term Windows		
3. What is a Taskbar? 4. Write any two features of Windows 10. 5. Briefly explain the use of Start button.		beline the term windows.		BEOR
3. What is a Taskbar? 4. Write any two features of Windows 10. 5. Briefly explain the use of Start button.		No. 1 Aug Charles		
3. What is a Taskbar? 4. Write any two features of Windows 10. 5. Briefly explain the use of Start button.	2	Mhatia Daaldan?		
4. Write any two features of Windows 10. Solution 10. Briefly explain the use of Start button.	۷.	vvnat is Desktop:	D 3682 4569 595	(m) 2V)
4. Write any two features of Windows 10. Solution Briefly explain the use of Start button.				
5. Briefly explain the use of Start button.	3.	What is a Taskbar?		
5. Briefly explain the use of Start button.			H Si Jan	
5. Briefly explain the use of Start button.	4.	Write any two features of Windows 10.		
5. Briefly explain the use of Start button.		92. 22. 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
5. Briefly explain the use of Start button.				
	_	Delegie avalain the use of Start button		
6. Describe the term Screen Saver.	Э.	briefly explain the use of Start Button.	en consumitation of the	na sedi
	6.	Describe the term Screen Saver.		
			24114	

Learning Computers with KIPS 47





Learning While Playing



Fill in the crossword with the help of the given clues.

DOWN

- 1. The slant arrow that is controlled by the movement of the mouse
- 4. The key that helps in selecting non-adjacent items.
- 6. are the labelled pictures on the screen.
- 8. The button gives quick access to documents, windows applications, etc.

ACROSS

- 2. _____ clicking the left mouse button on the icon will open the application window.
- 3. We can give voice commands to to search for a file.
- 5. the icons means arranging them in a proper sequence.
- 7. The key that helps in selecting adjacent items

				^{1.} P		THE E	
	011	Olive	1100		147.8	A PIT	
				N	1116		
	4.C	'nΰ	4000	Ship	BH 10	HERV	PA IN
D.				E			
	N			44 1970	Venn	91 711 9	11 21
3.C			Т		Α		
	L					OF PURP	F1 1/2
		^{5.} S			6. 1	G	^{8.} S
					Papi		9 14
					^{7.} S		Т

LAB SESSION

Perfection Through Practice



A. Selecting and Arranging Icons.

- > Click on the This PC icon on the desktop. The icon will be selected and highlighted.
- Now, double-click the icon. This PC folder will open.
- Click the Documents option on the left side pane. This will open the Documents folder.
- Select the adjacent folders by clicking the first icon to be selected then hold down the Shift key and click on the last icon.
- Click the mouse anywhere on the blank area to deselect the items.

- Select the non-adjacent folders by holding down the Ctrl key and clicking each of the desired icons.
- Click the Close button. This PC folder will be closed.
- Now, arrange icons on your desktop in different ways, such as Name, Size, and Item type.
- B. Changing Background and Screen Saver.
- Right-click on the blank area of the desktop. A Shortcut menu will appear.
- Select Personalize option from the menu.
- Click the Background option.
- Select any background from the displayed list and click on the Lock screen option.
- Select Screen Saver Settings option from the right pane.
- Click the drop-down arrow of the Screen saver list box. Set the screen saver to 3D Text and set the wait time to 2 minutes.
- Click the Settings tab. In the dialog box, select Custom Text radio button and type KIPS and then click OK. Now again click OK and observe the change.

GROUP DISCUSSION

For Concept Clarity



- Discuss the features of Cortana.
- Differentiate between the functions of Task View button and Peek button.

PROJECT WORK

Using Creativity



Make an informative chart displaying all the **Versions of Windows** and their features.

ONLINE LINK

Looking For More



To practice the mouse skills, visit the website: www.web-esl.com/pages/comp.html

	WORKSHEET
	Chapters 1-4
1.	Fill in the blanks.
	The data and instructions entered into a computer using a keyboard or a mouse is called
	is a long horizontal bar at the bottom of the desktop.
	Ais used to record our voice.
	Theis an image, which pops up whenever a computer is left idle for a certain period of time.
	While selecting thetool, the pointer changes into cross hair symbol.
Ш	Microphone Input Lines Taskbar Screen Saver
	State True or False.
	To change the desktop background, left click on the blank area of the desktop.
	CRT and LCD are the types of printers.
	A computer does not have an IQ or its own intelligence.
	Operating system is a part of Application software.
	To select an icon, simply click on it.
	Identify the shapes and write the names of the different mouse pointers.
	The same of the sa
	N P
	The state of the s
	Match the following effects with the correct icons.
	Stamp Tool
	Real Rainbow Effect
	Emboss Effect
	Kaleidoscope Effect
	Haze Brush

Learning Computers with Kips 50

cont	rols all parts of a computer system.	
a. MU	b. CU	c. ALU
The process of loading the	OS is called	
a. Backup	b. Rooting	c. Booting
Which part of the compute	r cannot be touched or seen?	
a. Hardware	b. Software	c. Storage devices
Which tool is selected by de	efault, when we open Tux Paint?	
a. Paint Tool	b. Lines Tool	c. Stamp Tool
i	s present to the right side of the task	bar.
a. Start button	b. Desktop	c. Notification Area
Answer in one word.		
Name a place where comp	uters are used.	(Po hid) ([x33,510 (90,0.0 ac y6
How many different backg	round colours are available in Tux Pai	nt?
Which part of a computer is	known as Visual Display Unit?	1 4 ¹¹ 1
Name the tool that is used t	o draw straight patterns in Tux Paint	
Which software helps you t	o do a specific type of work?	
Answer the following q	uestions.	
Define the term Windows.		an Stroen stational surjection
What is a Desktop?		ar kas ising abi abndisani. Is
Name some storage device		n usu enerla stene storyo energia
Which effect is used to crea	ite free-hand patterns?	reform Ordenscharpscharps auf. h

EDITING TEXT IN MS WORD 2016

LEARNING IN THIS CHAPTER

- Starting Word 2016
- Entering, Selecting, and Editing the text
- Inserting the text

- Moving, Copying, and Deleting the text
- Using Undo and Redo commands
- Using Spellings and Grammar, and Thesaurus

Word 2016 is an application software used for Word processing. It was introduced by Microsoft Corporation, one of the world's largest companies in software development. Word 2016 has the power and flexibility to:

- Produce letters, reports, notices, newsletters, books, bills etc., quickly and in a presentable manner.
- Modify the text, both while typing and after typing. Beautify the text using colour, style, font size, border, shading, and various other effects.
- Insert graphics and make use of various drawing tools to draw pictures.
- Copy and move the text from one location to another.
- Share documents on the internet and invite people to view and edit documents which are shareable.
- > Preview the text before printing it. Take multiple printouts.

> STARTING WORD 2016

Click on Start Word 2016

The Start Screen of Word 2016 appears, known as the **Backstage view**. The Backstage view is the central location for managing the Word documents. In Backstage view you can create new, save, open, print, share documents, and so on. To create a new document from this location, click on the **Blank document** thumbnail.

Word will open a new blank document with a temporary name, Document1.



Figure 5.1: Backstage View of Word 2016



- The small blinking vertical line that you notice on the screen is known as the Cursor. It is the insertion point and indicates the position where the next typed character will appear.
- As you start typing, the cursor automatically shifts to the right. We can enter text on the same screen or create a new document.

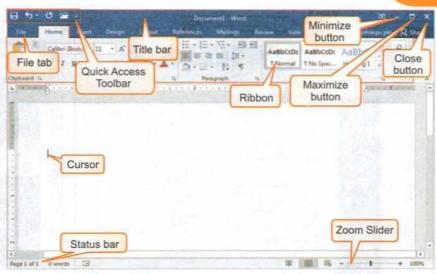


Figure 5.2: Word 2016 Document Window

ENTERING THE TEXT

While typing in a Word document, you will observe that Word wraps the text automatically. Wrapping the text means that if the text does not fit in the current line then Word shifts it to the next line by default. Type the following text and observe the wrap effect:

Learning is like eating food. It is not how much you eat that matters. What counts is how much you digest. The beautiful thing about learning is that no one can take it away.

Before proceeding further, let us have a quick glimpse of how to create, save, open, close, and print a document in Word 2016, which we have already discussed in the previous class.

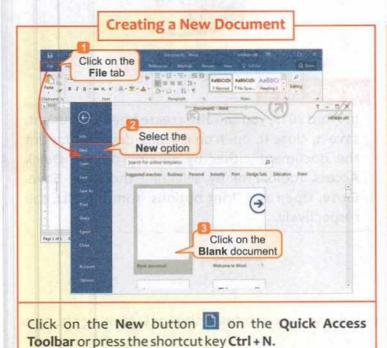


Figure 5.3: Creating a New Document

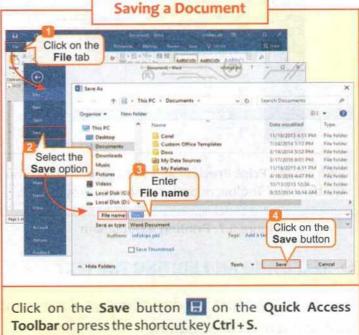


Figure 5.4: Saving a Document



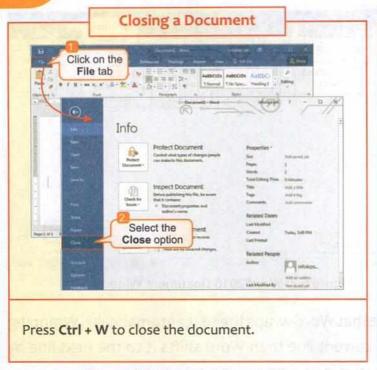
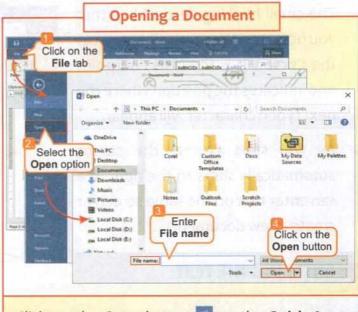


Figure 5.5: Closing a Document



Click on the Open button on the Quick Access Toolbar or press the shortcut key Ctrl + O.

Figure 5.6: Opening a Document

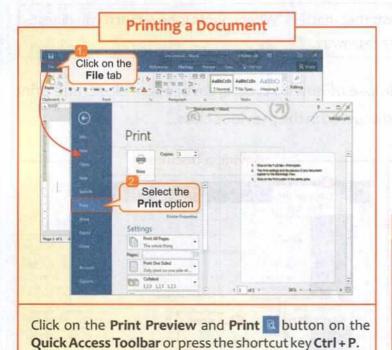


Figure 5.7: Printing a Document



WORD 2013

In Word 2013, you can also create a new document, save it, close it, open an existing document, print the document either by clicking on the Quick Access Toolbar or by selecting the New, Save, Close, Open and Print options from the FILE tab respectively.

SELECTING AND EDITING THE TEXT

After typing the text in a document, you may want to make some changes in the text. Making changes in a document is called **Editing**.

Before performing any action, like copying, moving, finding and replacing, deleting, or formatting the



text, we need to select the text. The selected text is displayed on the screen in a highlighted bar.

To select a block of text, we can use the 'Selection Area', which is the blank area in the left margin of the document. We can select the text in a variety of ways.

Selection Area

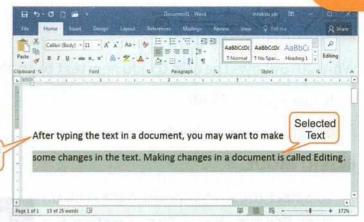


Figure 5.8: Displaying the Selection Area

SELECTING THE TEXT USING MOUSE

Text to Select	Method
A word	Double-click on the word.
A sentence	Hold down the Ctrl key and click anywhere on the sentence.
A paragraph	Triple-click anywhere in the paragraph, or double-click in the left margin of the paragraph.
A large block of text	Click at the beginning of the text. Press the Shift key and without releasing it, click at the end of the text.
Entire document	Click anywhere in the selection area while holding down the Ctrl + A key or triple-click in the Selection area.

SELECTING THE TEXT USING KEYBOARD

You can select the text on a document by using the following Shortcut keys:

Text to Select	Shortcut Key		
One character to the left	Shift + ←		
One character to the right	Shift + →		
One line up	Shift + ↑		
One line down	Shift + V man and man assent against and all and a man a		
Beginning of the current line	Shift + Home		
End of the current line	Shift + End		
Beginning of the current document	Shift + Ctrl + Home		
End of the current document	Shift + Ctrl + End		

WORD 2013

The above given methods and shortcut keys can also be used to select the text in Word 2013.



> INSERTING THE TEXT

Word 2016 allows the user to add new text to an already existing document in two different ways:

- By using Insert Mode
- By using Overtype Mode

INSERT MODE

- To select the insert mode, right-click on the Status bar. The Customize Status Bar menu appears.
- Click on the Overtype option. The Insert option appears on the Status bar which shows that the Insert mode is selected.
- Now to enter the text, place the pointer to the right of the character where you want to insert new text.
- Type the new text and observe the change.

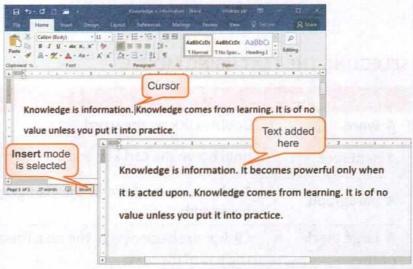


Figure 5.9: Insert Mode is Selected

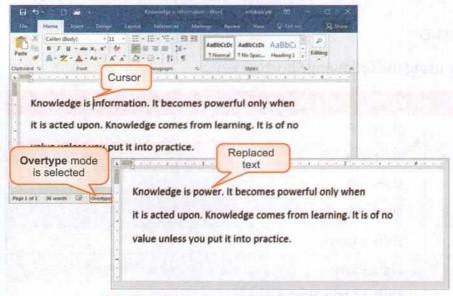


Figure 5.10: Overtype Mode is Selected

OVERTYPE MODE

You can replace the existing text by typing the new text on it. To enable the Overtype mode:

- Click on the Insert option on the Status bar. It will change the existing mode into Overtype mode.
- Now place the cursor before the letter and start typing.
- The existing text will be replaced with the new one.

WORD 2013

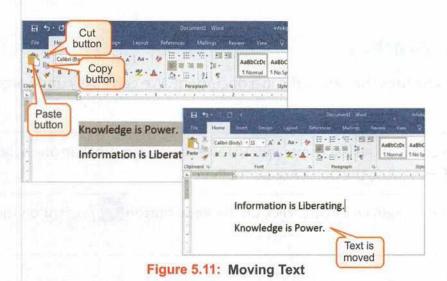
In the same way you can add new text in an existing text in Word 2013 by selecting the **INSERT** or **OVERTYPE** options on the Status bar.



MOVING THE TEXT

This feature is used to move the text from its original location to a new location.

- > Select the text you want to move. Click on the **Cut** button **X** in the **Clipboard** group on the **Home** tab or press **Ctrl** + **X**.
- The text disappears from the document and is temporarily placed on the clipboard.



Position the cursor at the location where you want to place the selected text.

Click on the Paste button or press Ctrl + V. The selected text appears at the desired location as shown in Figure 5.11.

WORD 2013

In Word 2013 **Cut**, **Copy** and **Paste** buttons are present in the **Clipboard** group on the **HOME** tab.

COPYING THE TEXT

Copy and Paste options are used to duplicate the text. We can copy the text not only from one location to another within a document, but also from one document to another. This feature helps in reducing our time and effort in typing. The only difference between Copy/Paste and Cut/Paste features is that the Copy feature copies the text but does not remove the text from its original place as the Cut feature does.

Let's Know More

Tell me what you want to do It is a new feature, which can be used to get quick

help on topics that you are looking for or the commands that you want to use in your document.

Know the Fact

Clipboard is a temporary storage area in Windows that allows you to store, cut, copy, and paste data while switching between the applications. Upto 24 multiple text and graphical items could stay on the Office Clipboard until you exit Office applications. After exiting the Office applications, the last item that you copied stays back in the Clipboard.

Quick View

To create a shortcut of Word 2016, drag its icon to the Desktop.

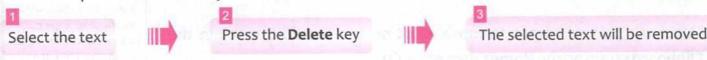
Let's Know More

Ribbon Display Options button present next to the Sign in button. When you click on this button it reveals the following three options:

- > Auto-hide Ribbon
- Show Tabs
- Show Tabs and Commands

DELETING THE TEXT

Word 2016 provides the facility to erase the text. Follow these steps:



You can also delete text by using the **Backspace** key. It removes the character to the left of the cursor position. To delete a block of the text, select the text and then press either the **Delete** key or the **Backspace** key.

> USING UNDO AND REDO COMMANDS

Word 2016 keeps track of all the changes that we make in a document. We can easily undo any change and restore the original text.

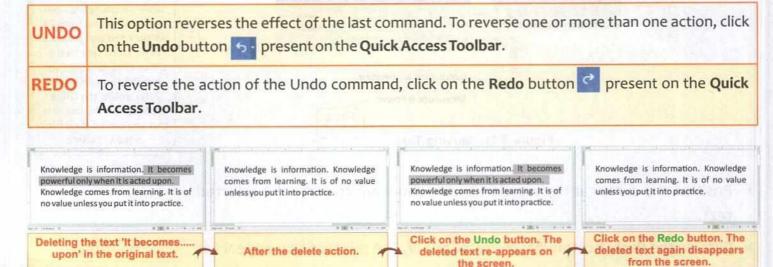


Figure 5.12: Use of Undo and Redo Buttons

WORD 2013

Similarly, in Word 2013, you can find the Undo and Redo options on the Quick Access Toolbar.

> CHECKING SPELLINGS AND GRAMMAR

Word 2016 has a built-in dictionary and a set of grammatical rules to check the spellings and grammar of the text document. Incorrectly spelt words are displayed with a single **red wavy line** under them. The grammatical errors are indicated with a **blue wavy line**. The spell check starts from the position of the cursor and checks the complete document. A simple method to check the spelling of any word is as follows:

- > Right-click on the word with a red wavy line.
- A Shortcut menu opens, displaying various suggestions.

- Select the correct spelling from the suggestions list.
- Word 2016 automatically replaces the incorrect spelling with the selected option.

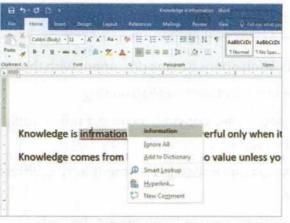


Figure 5.13: Checking Spelling and Grammar

Let's Know More

We can also click on Spelling & Grammar button in the Proofing group on the Review tab to correct the spellings and grammar in the document.

The **Spelling** task pane appears on the right side, highlighting the wrong spelling in red and displaying the list of suggestions.

USING THESAURUS

Thesaurus helps to improve our vocabulary by providing a list of synonyms (words with similar meaning), for any word. Follow these steps to use Thesaurus:

- Select the word for which you want to find synonyms.
- Click on the Review tab. Select the Thesaurus option in the Proofing group.
- The Thesaurus task pane opens on the right side of the document window, displaying the list synonyms.
- Move the mouse pointer to the suitable word. Click on the drop-down button and select the Insert option. The existing word will be replaced with the new one.

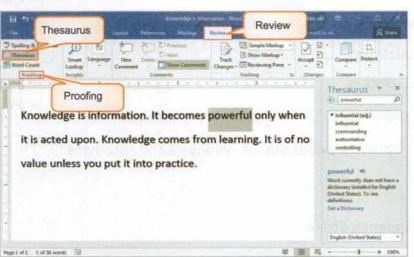


Figure 5.14: Using Thesaurus

Quick View

The shortcut key to check Spelling & Grammar is F7 key.



Quick View

Press Ctrl+Delete and Ctrl+Backspace key combinations to delete one word to the right or left respectively.

Quick View

The shortcut keys for Undo and Redo commands are Ctrl+Z and Ctrl+Y respectively.

WORD 2013

To activate the thesaurus option in Word 2013, click on **REVIEW** tab and select the **Thesaurus** option from the **Proofing** group.



- > Word 2016 application opens a blank document with the temporary name Document1.
- Making changes in a document is called editing.
- To perform any action, like copying, moving, finding, replacing, deleting or formatting the text, we need to select the text first.
- You can insert data in an existing document in two different ways— Using Insert Mode and Using Overtype Mode.
- Copy and Paste options are used to duplicate the text.
- The shortcut keys for Undo and Redo commands are Ctrl + Z and Ctrl + Y respectively.
- > Incorrectly spelt words are indicated with a red wavy line under them.
- > Grammatical errors are indicated with a blue wavy line.

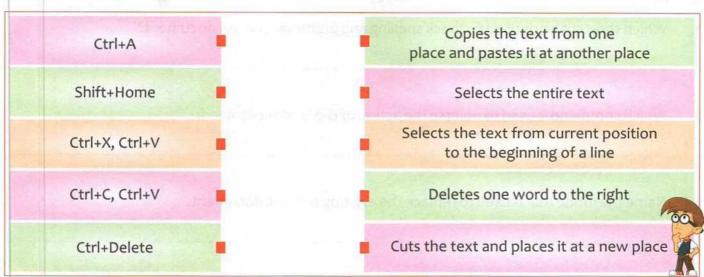
Computers with KIPS



SECTION - A

A.	Fill in the blanks.	
1.	Theis a blank area in the left margin of a document.	HINTS
2.	The is a reserved place that stores data temporarily.	EditingSelection Area
3.	Making changes in the document is called	File
4.	To print the document, click on	ThesaurusClipboard
	tab> option.	Red
5.	Incorrectly spelt words can be seen withwavy line under them.	Print
6. B.	The option provides a list of synonyms and antonyms. State True or False.	
1.	The shortcut key to close a document is Ctrl+C.	
2.	In MS Word you can share documents on the internet.	
3.	The shortcut key to jump to the end of the current document is Shift + Ctrl + End.	engress
4.	To select a sentence, hold down the Shift key and click anywhere on the sentence.	rin bift salve be of
5.	To select a paragraph, double-click anywhere in the paragraph.	SELEGOS ASTREES

C. Match the following.



D. Application-based questions.

- Raman has made a project, but he does not know how to check the spellings and grammatical mistakes in a document. What steps will you suggest him?
- 2. Sonam has added some extra paragraphs in her document. The teacher has asked her to delete them. How will you help her to do this?

SECTION - B

A. Multiple-choice questions.

- 1. In how many ways you can insert text in an existing document?
 - a.3

b. 2

- c. 4
- Grammatical errors are indicated with a
 - a. Red wavy line
- b. Green wavy line
 - c. Blue wavy line
- 3. Which among the following shortcut keys is used to select one character to the right?
 - a. Shift +→

b. Shift+←

- c. Shift +1
- 4. Which is the shortcut key for Undo command?
 - a. Ctrl+Y

b. Ctrl+U

c. Ctrl+Z



Answer in one word or one sentence.
Which shortcut key is used to check spelling and grammar in Word document?
Which command is used to reverse the action of the Undo command?
Name the mode that is used to replace the existing text in a document.
Write the shortcut key to delete one word to the left.
Answer the following questions. List any three features of a word processing software.
SUBSTITUTE OF THE STATE OF THE
What do you understand by Editing? How can you insert text in a document?
What do you understand by Editing? How can you insert text in a document?
What do you understand by Editing? How can you insert text in a document? Explain the use of Thesaurus option in Word 2016.
Emilitary as a superior of the



LAB SESSION

Perfection Through Practice



Everyday is a perfect gift for us to use,

Hours waiting to be felled in any way we chooose.

Each morning brings a hope that rises with sun,

Each evening brings the sweet content that comes with work done.

- > Type the above lines and save the document as 'The Perfect time' using the File tab > Save option.
- Press Ctrl + O key combination to open the document 'The Perfect time'. Make corrections in it.
- > Now using the Insert mode, add the text 'of time' before 'for us to use' in the first sentence.
- In the second sentence, place the cursor before the letter 'e' of 'felled' and replace 'e' with 'i' using the **Overtype** mode. Likewise correct the spelling of 'chooose' with **Spellings & Grammar** option.
- Insert the word 'quite' in the third sentence, before the word 'hope'. Similarly add 'well' before the word 'done' in the fourth sentence.
- > Select the word 'content' in the last sentence and replace it with word 'comfort' using Thesaurus option.
- > Save your document again by using the Ctrl + S key combination.
- > Close the Word application by clicking on the File tab > Close.

ONLINE LINKS

Looking For More

To know more about Office 2016, visit the following websites:

- http://www.gcflearnfree.org/office2016/word2016/1
- http://www.gcflearnfree.org/office2016/word2016/3
- http://www.gcflearnfree.org/office2016/word2016/5







FORMATTING A DOCUM

LEARNING IN THIS CHAPTER

- Changing Font Type, applying Bold, Italic, and Underline effects
- Changing Text Colour, Text Case, and Text Aligment
- Applying Superscript and Subscript effects

- Creating Bulleted or Numbered list
- Applying Borders and Shading
- Applying Drop Cap effect

Formatting means changing the appearance of a document to make it attractive. We can create and design appealing documents by:

- Changing font and its size
- Highlighting certain words
 Adjusting line spacing

- Setting margins and tabs
- Aligning text on a page
- Creating bulleted/numbered lists

- Changing text case
- Applying border
- Changing text styles and colour

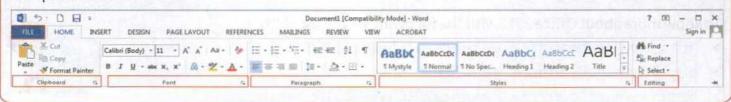
Formatting effects can be applied using the Home tab, which contains: font formatting commands (Font group), paragraph options (Paragraph group), text styles commands (Styles group), copying and moving commands (Clipboard group), finding, replacing, and selecting commands (Editing group).



Figure 6.1: Groups Selected on the Home tab

WORD 2013

The ribbon of Word 2013 looks similar to that of the Word 2016 ribbon, except that the menu names appear in capital letters.



CHANGING THE FONT TYPE

The characters of a specific size and design used for typing the text are called Fonts. Word 2016 provides various types of font options. When you open Word, the text appears in default font type that is, Calibri (Body) with 11 point size.



To change the font type:

- Select the text. Click on the Home tab.
- Click on the drop-down arrow next to the Font box in the Font group. A list of fonts appears.
- Choose the desired font from the displayed font list. Observe the change.

NOTE Starting from 2007 onwards, the default font in Microsoft Word has been set to Calibri with 11 point size, whereas, in the previous versions, it was Times New Roman.

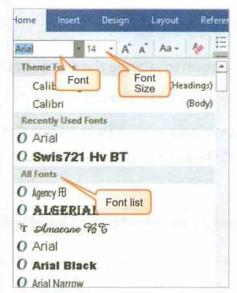


Figure 6.2: Changing Font Type

Let's Know More

Font Size refers to the overall size (generally height) of the letters. To change the size of font, click on Font Size 12 drop-down list in the Font group on the Home tab and select any font size from the displayed list.



APPLYING BOLD, ITALIC, AND UNDERLINE EFFECTS

The font style options, such as Boldface, Italic, and Underline are used to emphasise the text and catch the reader's attention.

Bold

: It makes the selected word darker than the rest of the text.

Italic

: This effect emphasises the text by slanting it to the right.

Underline: It emphasises text by placing a line under it. We can underline a word or sentence along with spaces.

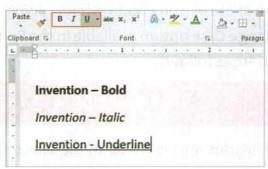


Figure 6.3: Applying Font Style Effects

Let's Know More



On selecting text, a small pop-up window appears, which has the basic formatting command buttons.



To apply any font style effects:

- Select the text.
- Click on the button B or I or U in the Font group on the Home tab.

Word 2016 provides a variety of formatting options, which can be selected from the Font dialog box on the Home tab. Simply click on the Font dialog box launcher in the Font group.

Word 2013

In Word 2013, you can also bold, italic, underline the text by selecting B, I, U effects in the Font group on the HOME tab.

Quick View

Press the shortcut keys to apply and remove the given effects: Ctrl+B for bold Ctrl+I for italic Ctrl+U for underline



> CHANGING TEXT COLOUR

Word 2016 provides an option to change the colour of the text.

- > Select the text and click on the **Home** tab.
- Click on the drop-down arrow next to the Font Color button on the Home tab. Select the desired colour from the displayed Font color menu.

You can also make customised colours by selecting the **More**Colors option.



Figure 6.4: Changing Colour of Text

Word 2013

Similarly in Word 2013, you can change the colour of the text by selecting the **Font Color** button on the **HOME** tab in the **Font** group.



CHANGING TEXT CASE

You can change the case of the existing text without retyping it in Microsoft Word. To do so, select the text and choose the **Change Case** option available in the **Font** group. Word 2016 provides five types of case conversions, which are as follows:

Font Case	Explanation	Example
Sentence case	Capitalises the first letter of the selected sentence.	This is a test document.
lowercase	Converts the selected text to lowercase.	this is a test document.
UPPERCASE	Converts the selected text to uppercase.	THIS IS A TEST DOCUMENT.
Capitalize Each Word	Changes the first letter of each selected word to uppercase.	This Is A Test Document.
tOGGLE cASE	Converts the case of every selected character in reverse manner, i.e., a capital letter will convert into lowercase and vice versa.	tHIS IS a tEST dOCUMENT.

Word 2013

In Word 2013 also, you have similar font cases to format the text .

CHANGING TEXT ALIGNMENT

Alignment refers to the positioning of text on a page. It is always better to set the alignment before typing. We can also select an entire document and then change the alignment of text.

Word 2016 provides four types of alignments, which are as follows:

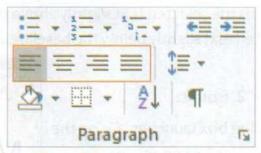
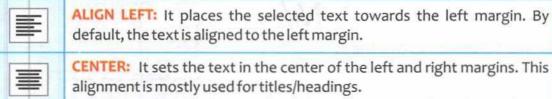


Figure 6.5: Alignment Buttons

Let's Know More

The Redo button on the Quick Access Toolbar can also be used as a 'Repeat Typing' tool to rewrite a previously typed word.





ALIGN RIGHT: This aligns the selected text towards the right margin. It is often used for placing dates or reference in a document.



JUSTIFY: It places the text evenly between the left and the right margins. It is mainly used for designing books, magazines, and newspapers.



How to align the text?

- Select the text. Click on any desired alignment button in the Paragraph group on the Home tab.
- Observe the change in the alignment.

Quick View

Press Shift + Enter to insert blank lines in the bulleted or numbered list.

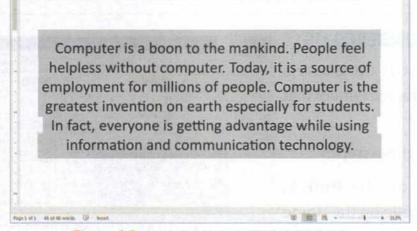


Figure 6.6: Applying Center Text Alignment

Word 2013

To change the alignment of the text, select any of the above given options in the **Paragraph** group on the **HOME** tab.



Quick View

On which group do you find the Change Case option?

APPLYING SUPERSCRIPT AND SUBSCRIPT EFFECTS

Superscript option places the selected text slightly above the baseline. On the contrary, the **Subscript** option places the selected text slightly below the baseline and makes it appear smaller than the rest of the text.

- Type 'M2' and select '2' from it.
- Click on the Font dialog box launcher on the Home tab. The Font dialog box appears.
- Select the Superscript check box under the Effects section. Click Ok.
- You will notice that '2' will be placed above the baseline.

Similarly, you can apply the **Subscript** effect to the text.

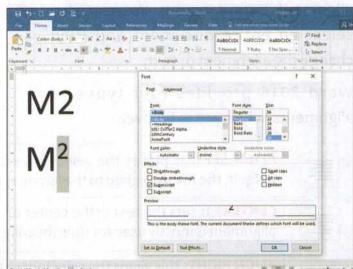


Figure 6.7: Applying Superscript Effect



- ➤ Click on the **Superscript** or **Subscript** button present in the **Font** group on the **Home** tab to apply the respective effects on the selected text.
- > To apply other special effects on the selected text, click on the Font dialog box launcher . Select the required font effect in Effects section, like Strike through, Small caps, All caps, Hidden, etc.

Word 2013

In Word 2013, also you can apply various formatting effects to the text by following the same steps as we have mentioned above.

CREATING BULLETED OR NUMBERED LIST

We can format lists in a document by using bullets and numbers. A bullet is a small graphic symbol that is added before an item in a list.

To apply bullets to the text, follow these steps:

- Select the text and click on the Bullets button in the Paragraph group on the Home tab. Select the bullet style of your choice.
- You will find that the selected text is bulleted and the indents are automatically adjusted to separate the text from the bullets.

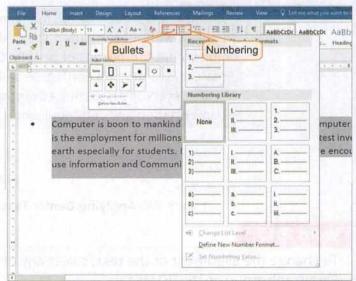


Figure 6.8: Creating Bulleted or Numbered List



Similarly, you can apply a numbered list to the text. To apply the numbering effect on the text.

Click on the Numbering button in the Paragraph group and select any list style of your choice.

Quick View

The shortcut key to apply/remove the Subscript effect is Ctrl +=. Press Ctrl+Shift+= to apply/remove Superscript effect.

APPLYING BORDER AND SHADING

To improve the appearance and legibility of the text, we can add a variety of border and shading effects to the paragraphs and the entire page.

- Select the text. Click on the drop-down arrow next to the Borders button in the Paragraph group on the Home tab.
- Select the Borders and Shading option from the displayed list.
- The Borders and Shading dialog box appears as shown in Figure 6.10.
- Now, set the border style.
- Choose the Box option under the Setting section and select the border style. Select the line style under the Style list box.

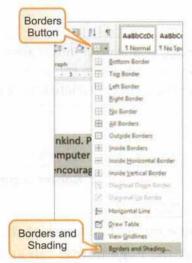


Figure 6.9: Selecting Borders and Shading Option



Let's Know More

You can also use a picture, symbol or a font as a bullet by clicking the drop-down arrow of Bullets button and selecting Define New Bullet option.

To apply picture as bullet, select Picture tab from the

Define New Bullet dialog

Define New Bullet dialog box and pick any picture from the file.

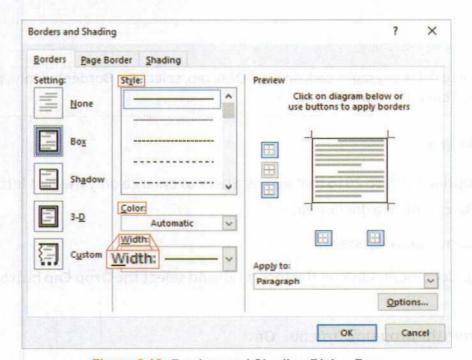


Figure 6.10: Borders and Shading Dialog Box



- Click on the drop-down list of Color and select any colour of your choice.
- Choose the line width from the Width section.
- Click on the drop-down list of Apply to section and select the Paragraph option.
- Click OK and observe the change.

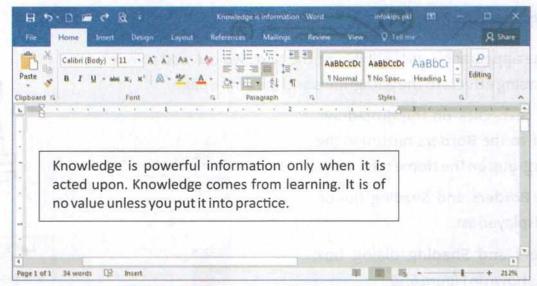


Figure 6.11: Border is applied to the Paragraph

To apply a border around a page, click on the Borders drop-down arrow and select the Borders and Shading option. Select the Page Border tab in the Borders and Shading dialog box. Choose the desired Setting, Style, Color, and Width of the border. Click OK. The defined border will be applied around the page.

Word 2013

To apply the border and shading to the paragraphs click on the **HOME** tab, select the **Border** button in the **Paragraph** group and follow the above mentioned steps.

> APPLYING DROP CAP EFFECT

Drop Cap is a text formatting option in Word 2016 that allows a user to enlarge only the first letter of a paragraph. It is used to give a fancy look to a document.

To apply the drop cap effect, follow the given steps.

- Select the first word of your document. Click on the Insert tab and select the Drop Cap button in the Text group.
- Select the desired option from the drop-down menu. Or Select the Drop Cap Options from the list.



- The **Drop Cap** dialog box appears. Select the **Dropped** option.
- Select the options, if necessary. Click on **OK** button.
 - Observe the change.

Word 2013

In Word 2013, click on the **INSERT** tab and choose the **Drop Cap** option in the **Text** group to enlarge only the first letter of a paragraph. Its application is exactly the same as in Word 2016.

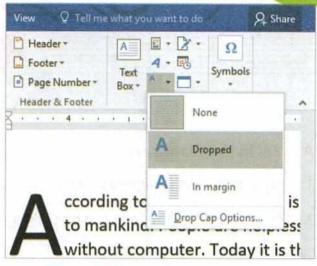


Figure 6.12: Using Drop Cap Effect

RECAP

- Formatting means changing the appearance of a document to make it attractive.
- Fonts are the characters of a specific size and design used for typing the text.
- > Bold effect makes the selected word darker than the rest of the text.
- > Italic effect emphasises the text by slanting it to the right.
- Underline effect places a line under the selected text along with spaces.
- Alignment refers to the positioning of the text on a page.
- Superscript option places the selected text slightly above the baseline.
- > Subscript option places the selected text slightly below the baseline and makes it appear smaller than the rest of the text.
- A bullet is a small graphic symbol that is added before an item in a list.
- Border button is used to apply borders around the selected text, paragraph, and the entire page to improve the appearance of the text.
- The Drop Cap effect enlarges the first letter of a paragraph.





SECTION - A

A.	Fill in the blanks.
1.	By default, text is aligned to the margins.
2.	We can change the font size by clicking on the Font Size drop-down button on the
	tab. abor . returned to be the training and the second training and training and the second training and the second training and the second training and the second training and an article and training and an article and
3.	To select the Drop Cap option, click on thetab.
4.	Ais a small graphic symbol that is added before an item in a list.
5.	option places the selected text slightly above the baseline.
HII	Home Left Insert Superscript Bullet
B.	State True or False.
1.	By default, Word 2016 sets the font to Calibri (Body).
2.	Justified alignment means that the text is aligned with the left margin.
3.	We can apply bullets to a text document by selecting the Bullets button.
4.	The Bold button is used to display the text in a darker shade than the rest of the text.
5.	The drop cap effect reduces the first letter of a paragraph.
6.	A word or a sentence can be underlined along with spaces.
c.	Application-based questions.
1.	Ritika has designed a colourful Birthday card. The teacher has advised her to apply Border and Shading effect around the card. Help Ritika to apply the effect.
2.	The Science teacher of Madhav has asked him to create a list of the students of his class and enter their marks into it. Which option should be use to create a numbered list?

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SECTION - B

Multiple-choice	questions.				
	alignment is used to set th	ne text evenly b	etween th	e left and the rig	ght marg
a. Left	b. Center	c. Justify			
The Font Size box	is available on the		tab.		
a. Insert	b. Font	c. Home			
What is the shortc	ut key to apply/remove the Sub	script effect?			
a. Ctrl +=	b. Ctrl + Shift + =	c. Ctrl + Shift			
Which among the	following commands is used as	Repeat Typing	gtool?		
a. Undo	b. Redo	c. Paste			
Answer the follo	owing questions.				
What does Format	tting mean?				
List the various ch	ange case options available in V	Vord 2016. Expl	lain any tw	0.	
Define the term te	ext alignment. Name the types o	of alignments a	vailable in \	Word 2016.	
			21 20		FINE F
What is the differe	ence between Superscript and S	Subscript option			

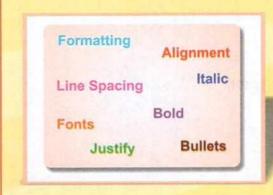


MY ACTIVITY

Learning While Playing



The hint box with various formatting terms is given on the left. Find and colour these words in the given letter grid.





	1	R	0	В	Α	K	Е	F	Υ	R	A
	Е	D	В	U	L	L	Е	Т	S	D	L
	W	R	U	Q	N	Z	W	G	J	Т	1
	L	1	N	Е	S	Р	Α	С	1	N	G
	F	0	R	M	Α	Т	Т	1	Ν	G	N
	Α	K	Т	Υ	Т	G	Е	Υ	0	Α	М
	J	U	S	Т	1	F	Υ	F	D	N	Е
	N	Z	K	X	J	U	В	0	L	D	N
	Е	S	1	Α	F	1	0	N	F	S	Т
	R	М	В	0	D	D	М	Т	X	М	D
	1	Τ	Α	L	1	С	Q	S	X	K	L

LAB SESSION

Perfection Through Practice





Type the following text on Safety Rules without applying any formatting effects. Later on, apply the formatting effects by following the instructions given below. Save the file with the name, 'SAFETY'.

SAFETY ON THE ROAD

- > While crossing the road, look on both sides and if it is clear, only then cross the road.
- Do not play on the road.
- Use Zebra Crossing or Subway to cross the road.
- > Cross the road carefully.

What do Traffic Lights signify?

- 1. Red means Stop.
- 2. Green means Go.
- 3. Yellow means wait.



INSTRUCTIONS

- Select the heading, 'SAFETY ON THE ROAD', change its Font to Impact and Font Size to 16.
- Click on Underline and Bold buttons in the Font group on the Home tab and center align the heading.
- > Click on the Font Color drop-down list. Select the heading and apply red colour to it.
- > Select all the points and change their **Font** to **Arial Black**, **Font Size** to **12**, and apply **Italic** effect to them. Click on the **Bullets** button in the **Paragraph** group and observe the change.
- Select the text, 'Zebra Crossing' and 'Subway', change their Font Size to 14 and apply green colour to it.
- > Select the heading 'What do Traffic Lights signify?'. Underline the heading and center align it as given in the figure.
- > Highlight the last three points with yellow colour and apply Numbering effect to them.
- Save the file using Ctrl+S key combination.

PROJECT WORK

Using Creativity

Write a letter to your Mother and convey thanks to her for allowing you to go for picnic. Format the document by applying the effects you have learnt so far.



ONLINE LINKS

Looking For More

To learn more about Word 2016, visit the following websites:

- https://support.office.com/en-us/article/Format-a-document-in-Word-2016-780772c6-9506-4081-afd1-aff9aab19f5f
- http://www.gcflearnfree.org/word2016/6





WORKING WITH PAINT 3D

LEARNING IN THIS CHAPTER

- Paint 3D
- How to Open Paint 3D?
- Components of Paint 3D window
- Drawing a 2D circle

- Drawing a 3D sphere
- Working with the Brushes tool
- Erasing a drawing
- Saving a drawing

Students, look around your classroom. Observe carefully all the objects kept in the class. What do you see? You will see different objects in different shapes, sizes, and colours.

Take out your notebook and pencil and draw the following objects:



Note that all these objects have only length and breadth properties. In other words, they are flat. Such objects that have only two dimensions, i.e., length and breadth properties are called 2D or two-dimensional objects.

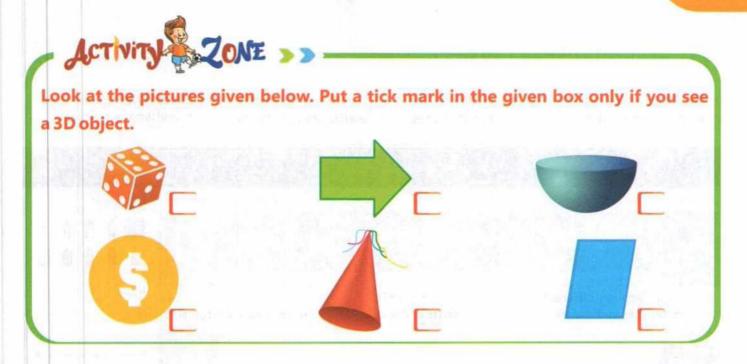
Next, take out the following objects from your school bag. What do you see now?



You can see that all these objects have an additional property which is **height**, along with length and breadth. Can you pick the picture that you have drawn? No! But can you hold the objects which you took out from your bag? Yes!

Such objects which you can hold are called 3D objects. These objects that have height, length, and breadth properties are called 3D or three-dimensional objects.

From the above exercise you have learnt the difference between 2D and 3D shapes, i.e., 2D objects are the objects that have only length and breadth properties while 3D objects have height, length, and breadth properties.



A computer has a Paint 3D program that helps us to make colourful drawings.

PAINT 3D

Paint 3D is a wonderful tool designed by Microsoft for drawing different types of 3D Objects. The earlier version called MS Paint, is still significantly used for creating 2D shapes. Along with the ease of using, Paint 3D also has a vast library of 3D objects and tools to draw pictures.

> HOW TO OPEN PAINT 3D?

- To open Paint 3D, type Paint 3D in the search box.
- Select Paint 3D App option, from the list of results.
- Open Paint 3D and select New option to open a new project.

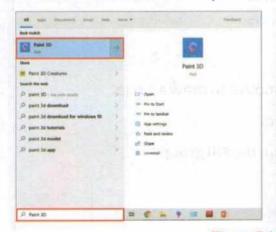




Figure 7.1: Starting Paint 3D



COMPONENTS OF PAINT 3D WINDOW

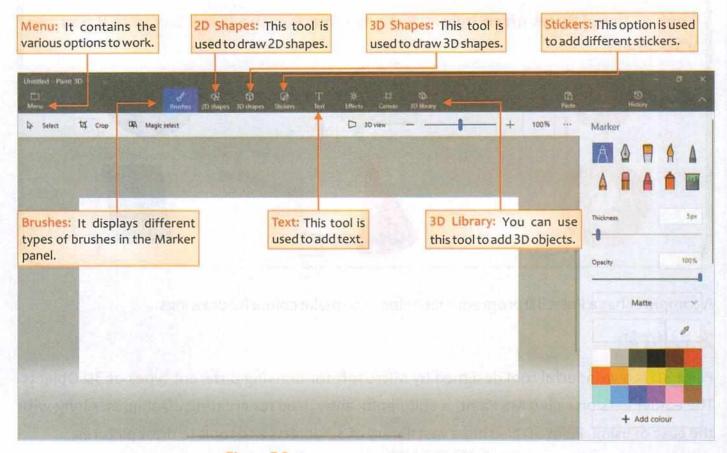
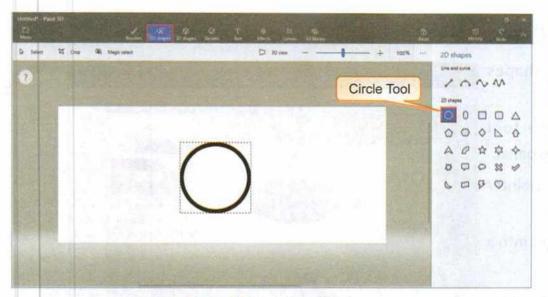


Figure 7.2: Components of Paint 3D Window

DRAWING A 2D CIRCLE

- Click on the 2D shapes option.
- Select the Circle tool from the 2D shapes panel.
- Move the mouse pointer to the canvas area.
- > The pointer changes into a '+' sign.
- Hold down the left mouse button and drag the mouse to draw a circle.
- Release the mouse button when a circle is drawn.
- Add colour to the circle by selecting a colour from the Fill group.



Let's Know More

Shortcuts like Ctrl+A, Ctrl+C, and Ctrl+ V work quite well when it comes to selecting, shifting or removing any unwanted objects in Paint 3D.

Figure 7.3: Drawing a Circle

FILLING AN OBJECT WITH COLOUR

- To fill an object with any colour, click on the Brushes option.
- Select the Fill tool and then select the colour of your choice from the colour pallete.
- Move the mouse pointer to the object that you want to fill.
- Click the left mouse button. The selected colour will be filled in the object.

Let's Know More

When you launch the 3D Paint app, the area where you draw is called Canvas.

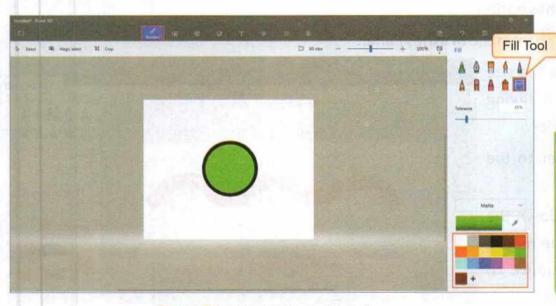


Figure 7.4: Filling Object with Colour

Quick View

 If you want to reverse your last actions, use Undo command or Ctrl+Z.
 Redo command is used to reverse the effect of Undo command or you can also use Ctrl+Y key combination.

> DRAWING A 3D SPHERE

- Click on the 3D shapes option.
- Select the Sphere tool from the 3D shapes panel.
- Move the mouse pointer to the Canvas area.
- The pointer changes into a '+' sign.
- Hold down the left mouse button and drag the mouse to draw the sphere.

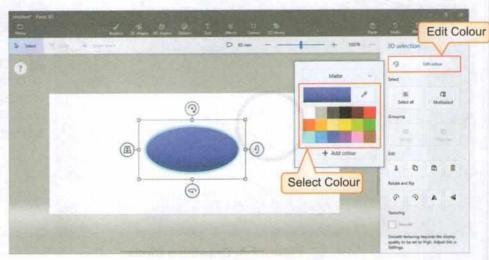


Figure 7.5: Drawing 3D Sphere

- > Release the mouse button when the sphere is drawn.
- > Add colour to the sphere by selecting the Edit colour option from the 3D selection panel.

NOTE

To draw a perfect sphere, press the Shift key while using the Sphere tool.

WORKING WITH THE BRUSHES TOOL

- Click on the Brushes option.
- Select Oil Brush from the Brushes Panel.
- You can increase the size of the brush by dragging the Thickness slider.
- Move the pointer to the Canvas area.
- Press and hold down the left button of the mouse and drag the mouse to draw different lines.

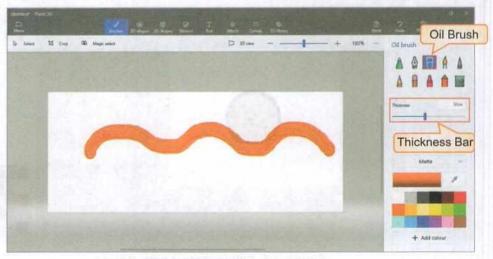


Figure 7.6: Using Brush Tool

> ERASING A DRAWING

- The Eraser tool is used to erase any part of a drawing.
- Select the Eraser tool from the Brushes panel.
- Change the size of the Eraser by dragging the Thickness slider.
- A square will appear in the Drawing area. Hold down the left mouse button, and move it on the area you want to erase.

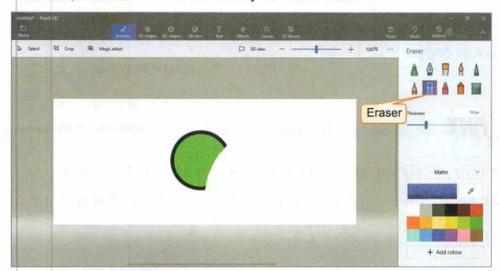


Figure 7.7: Using Eraser Tool

OPENING A PROJECT IN PAINT 3D

If you want to work on any old drawing that you had saved previously, the first step will be to open that file. To open a saved project, follow the given steps:

- Click on the Menu icon and select the Open option.
- The Open panel will display a list of projects saved in Paint 3D.
- Select the desired project from the Saved Projects list.

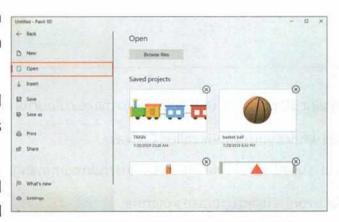


Figure 7.8: Opening a Project in Paint 3D

Let's Discuss

Erase tool and Brush Tool

Let's Know More

If you want to clear all the objects from the drawing area, select all the objects and click on the **Delete** button.

Let's Know More

When an object gets selected, the handles at the right, top, and bottom let you rotate the object.

Quick View

You can use the F12 key to save a Paint 3D drawing for the first time.



SAVING A DRAWING

It is important to save your drawing after finishing the work. Once it is saved, you can reuse it any time.

- Click on the Menu option in the side bar. Select Save as option.
- To save your drawing, select the Image option under Save as copy.

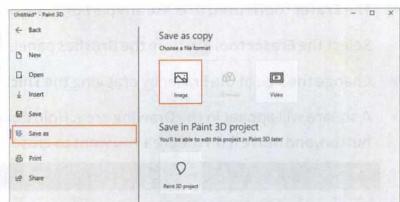


Figure 7.9: Saving a Drawing



- A. To draw an icecream cone, select the 3D Cone and Hemisphere from 3D objects.
- B. To draw an umbrella, select the Hemisphere tool from 3D objects and lines from 2D objects.

RECAP

- A computer has a Paint 3D program that helps us to make colourful drawing.
- In Paint 3D, the area where you draw is called Canvas.
- The Redo command is used to reverse the effect of Undo command.
- In Paint 3D, the Erase tool is used to erase a picture.
- The F12 shortcut key is used to save a Paint 3D drawing.



SECTION - A

A. State True or False.

١.	The 3D objects are used to draw 2D snapes.				
2.	The Eraser tool is used to erase any part of a drawing.				
3.	You can increase the size of the Brush by dragging the Thickne	ss slider.			
В.	Rearrange the jumbled letters to make a meaningful wor	rds.			
	R S H U B				
	OTSLO				
	ROCOLU	ty it Lightney a			
	EASERR	to be a solution of the			
	SECTION - B				
A.	Multiple-choice questions.				
1.	Which 3D tool is used to draw a sphere?				
	a. Pencil b. Eraser	c. Sphere			
2.	Which tool is used for adding colours to an object?				
	a. Fill b. Thickness Slider	c. Oil Brush Tool			
3.	Name the area where you draw in Paint 3D.				
	a. Canvas b. Sketch	c. Window			
4.	Which option is used for adding stickers?				
	a. 3D Library b. 2D Objects	c. Stickers			
3.	Answer in one word.				
1.	Which slider is used to change the thickness of any object?				
2.	Which tool will you use to draw a ball?				
3.	Which option is used to start a New Project?				
4.	Where will you find the different types of brushes in Paint 3D?				
		Learning Computers with Kips 83			
		companies with a see			



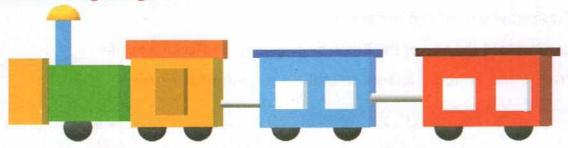
LAB SESSION

Perfection Through Practice





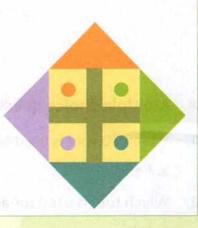
1. Draw the following 3D Figure:



- Use the 3D Sphere, Hemisphere, 3D Cube, and Capsule tool.
- > To draw uniform windows, use Copy and Paste options.

2. Draw the given 2D Figure:

- Use the Rectangle, Line, and Oval shapes to make the inner pattern. Use the Polygon shapes to make triangles.
- Save the file.



GROUP DISCUSSION

For Concept Clarity

Discuss the following topic with the students.

3D vs 2D objects



PROJECT WORK

Using Creativity

Using 3D and 2D tools make an attractive Birthday Card for your Mother.



INTRODUCTION TO SCRATCH

LEARNING IN THIS CHAPTER

- Scratch A simple language
- Starting Scratch
- Main components of Scratch
- Moving a Sprite

- Drawing a colourful circle
- Making a duplicate copy of Sprite
- Saving a Scratch project
- Opening a Saved project

Students! How do you express your feelings to your family and friends? Through language, isn't it?

A language is a medium to talk or write. You may speak different languages, like Hindi, English or any other regional language, but to talk to any person, you need a common language, which both of you can speak and understand.

In the same way, if you want to give instructions to a computer, you need to learn the language that a computer understands. A computer does not understand the language that we speak. It understands only few special languages of its own. These are known as **Programming Languages**.

A programming language has a set of instructions, using which you can make a computer do any activity that you want.

SCRATCH - A SIMPLE LANGUAGE

Scratch is one of the easiest computer languages. Students can use Scratch to create their own games, animated stories, and projects with great ease.

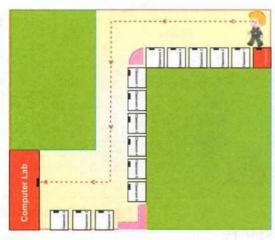
Any task that we perform includes many steps. It should be completed, step-by-step, in a particular sequence.

Suppose Kabir's teacher asks him to bring notebooks of his class from the Computer lab. As he is new in the school, she guides him how to reach the Computer lab. She gives the following instructions to Kabir:



- Move to the left from the class and go straight.
- After crossing five classes, take a left turn.
- Then, move forward and after crossing six classes, take a right turn.
- After crossing three classes, you will reach the Computer lab.

Likewise, a computer also follows step-wise instructions to complete any task. These step-wise instructions are known as a **Program**.



STARTING SCRATCH

To start Scratch, follow the steps given below:



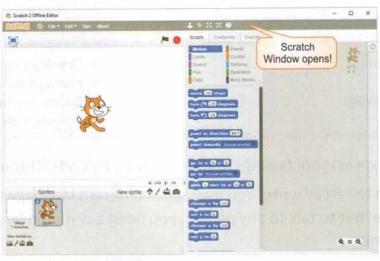


Figure 8.1: Starting Scratch

MAIN COMPONENTS OF SCRATCH

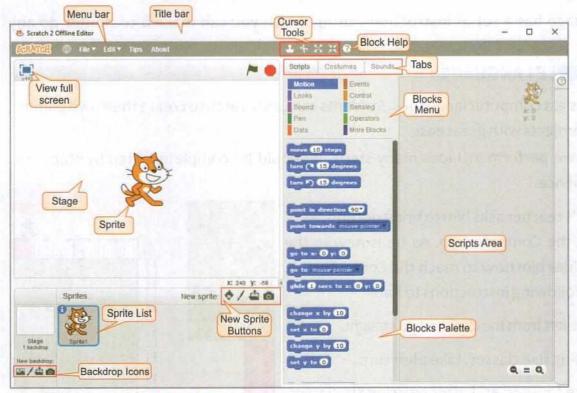


Figure 8.2: Components of Scratch Window

SPRITE

Sprite is a small graphic character that performs actions in a Scratch project. Scratch provides a number of in-built Sprites. Cat is the default Sprite in Scratch.

Fact File



Scratch was developed by the Lifelong Kindergarten Group at the MASSACHUSETTS INSTITUTE OF TECHNOLOGY(MIT) Media Lab, led by Mitchel Resnick in 2003.

Let's Know More

Scratch 3.0 is the latest version of Scratch. It comes with a lot of exiting new features such as, dozens of new sprites, backgrounds and sound. It was released on 2nd January 2019.

Know the Fact

Scratch is used in more than 150 countries and available in 40 different languages.

Know the Fact

Scratch can easily run on different operating systems, including Windows, Mac OS, and Linux.

Know the Fact

The official website of Scratch is : www.scratch.mit.edu



STAGE

It is the main working area where the Sprite moves and performs actions, as per the given instructions. Here you can watch stories, play games, and run Scratch projects that you have created.

BLOCKS PALETTE

The Blocks palette contains the set of blocks, which is used to program the Sprite and give actions to it. Each block performs specific tasks in a project. It is used to create scripts in Scratch. The blocks connect with each other just like a jig-saw puzzle.

SCRIPT

A script is a collection of step-wise instructions that are given to a Sprite to do a specific task. A script consists of at least two blocks.

SCRIPTS AREA

The Scripts Area is the place where you create a script for a Sprite to do a particular task. The script is created by dragging the instructions from the blocks palette and dropping them step-wise one below the other. A script is also called a **Program**.

Let us learn how to drag and drop the blocks in the Scripts Area:

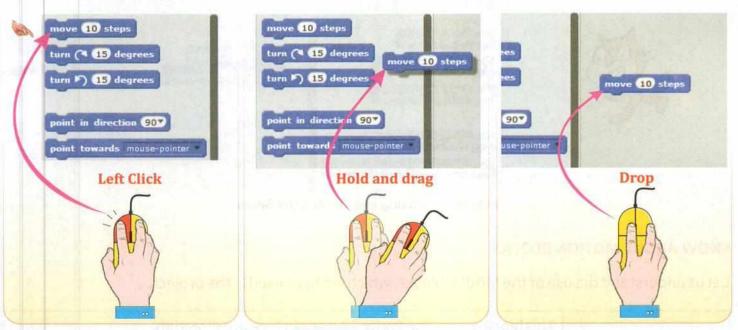


Figure 8.3: Scripts Area

MOVING A SPRITE

All the instructions related to the movement of a Sprite are given under the Motion block menu.

Let us create a Scratch project to move the Sprite in circular motion.



- Open the Scratch window.
- > By default, the Motion block palette is displayed on the left side of the Scratch window.
- Click on the move 10 steps block and drag it to the Scripts Area. Change the step number from 10 to 20 by typing in the number box. Click on the block. You will notice that the Sprite moves the specified number of steps.
- > Click on the turn (15 degrees block. Now, drag and drop it on the Scripts Area. Place it below the move 20 steps block.
- Keep clicking on any block in the Scripts Area.
- Observe that the Sprite is moving 20 steps forward and turning 15 degrees in a circular motion on the stage.

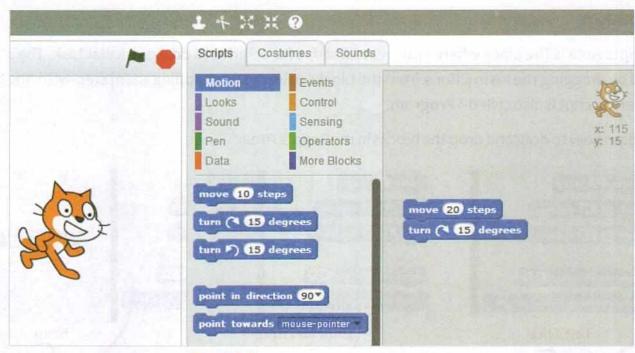
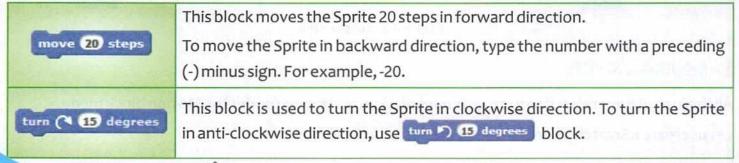


Figure 8.4: Moving and Turning the Sprite

KNOW ABOUT MOTION BLOCKS

Let us understand the use of the Motion blocks, which we have used in the project.



> DRAWING A COLOURFUL CIRCLE

The blocks in the **Pen** block menu allow the Sprite to draw lines on the stage, change the colour, and the thickness of lines. Let us add some more blocks to the previous Scratch project. Observe the movement of the Sprite on the stage.

- Click on the Pen block menu.
- Select the pen down block from the Pen block palette.
- > Drag out the block and place it underneath the turn (* 15 degrees block.
- Now, click and pull the set pen size to 1 block onto the Scripts Area. Place it below the pen down block. Change the value from 1 to 10.



Figure 8.5: Drawing a Colourful Circle

- > Drag out the change pen color by 10 block from the Pen block palette and drop it at the end. Change the value from 10 to 20.
- Keep clicking on any of the blocks in the Scripts Area till the Sprite completes its colourful circle.

KNOW ABOUT PEN BLOCK

Let us understand the use of Pen blocks that we have used in the project.

pen down	This block draws a line as the Sprite moves on the stage.
set pen size to 1	This block is used to set the thickness of the pen to a specific number. You can change the thickness of the pen by typing in the number box.
change pen color by 10	To change the colour of the pen, use change pen color by 10 block.

MAKING A DUPLICATE COPY OF SPRITE

To create a duplicate copy of the Sprite, the stamp blockis used.

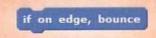
Drag out the blocks from the Motion and Pen blocks palette as shown in Figure 8.6. Snap the blocks together onto the Scripts Area.



Figure 8.6: Making Duplicate Copies of Sprite

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- Change the values of the blocks as given in Figure 8.6.
- Click on any of the blocks to create the duplicate copy of the Sprite.
- > Notice, as the Sprite reaches the edge of the Stage, it will bounce back and change its direction.



The if on edge, bounce block is in the **Motion** block menu. It is used to turn the Sprite in the opposite direction as it reaches the edge of the stage.

SAVING A SCRATCH PROJECT

Once you finish the project, always save it before closing the Scratch window.

To save the project, follow the given steps:

- Click on the File menu in the Menu bar. Select the Save option from the drop-down list.
- The Save Project dialog box appears.
- Choose the desired location where you want to save your Scratch project.

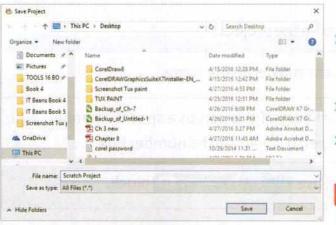


Figure 8.8: Save Project Dialog Box



Figure 8.7: Saving a Project

- Assign a name to your project in the **File name** text box.
- Click on the Save button.
- Your Scratch project will be saved. You can open it whenever required.

NOTE

Scratch 2.0 projects are saved with the extension .sb2.

OPENING A SAVED PROJECT

To open a saved project, follow the given steps:

Click on the File tab. Choose the Open option from the drop-down list.



Figure 8.9: Opening the Scratch Project



- The Open Project dialog box appears.
- Select the project that you want to open.
- Click on the Open button.
- The selected project opens in the Scratch window.

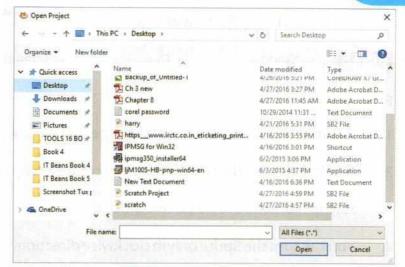


Figure 8.10: Open Project Dialog Box

RECAP

- A computer understands only a few special languages of its own. These are known as programming languages.
- Scratch is one of the easiest computer languages.
- Students can use Scratch to create their own games, animated stories, and projects with great ease.
- > Sprite is a small graphic character that performs actions in a Scratch project.
- Script is a collection of step-wise instructions that are given to Sprite to do a specific task.
- > Scripts Area is the place where you create a script for a Sprite to do a particular task.
- > All the instructions related to the movement of Sprite are given under the Motion block menu.
- > The blocks in the Pen block menu allow the Sprite to draw lines on the stage, change the colour, and the thickness of lines.



SECTION - A

A. Fill in the blanks.

- 1. is one of the easiest computer languages.
- 2. A computer follows step-wise instructions to complete any task, which is known as
- 3. is a graphic character which moves on the stage.
- 4. The blocks in the ______ block allow the Sprite to draw lines on the stage, change the colour, and the thickness of lines.



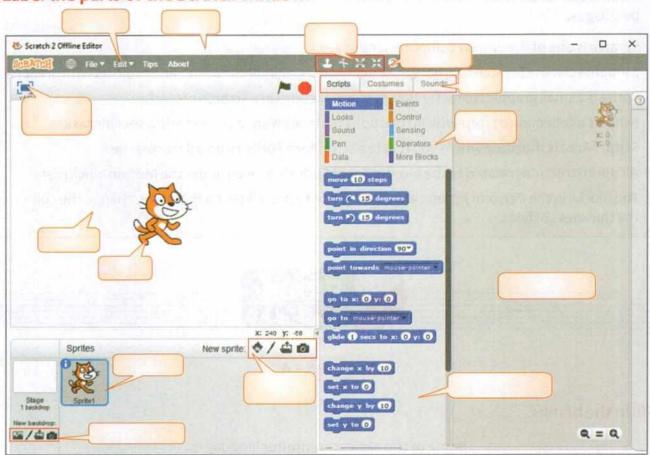
5. In Scratch, the Sprite moves on the when you run a program.

HINTS Stage Pen Scratch Program Sprite

B. State True or False.

- A computer understands the language that we speak.
- 2. Blocks Palette is the place where you create a script for the Sprite to do a specific task.
- A script consists of at least two blocks.
- 4. You can turn the Sprite only in clockwise direction.
- 5. Scratch 2.0 projects are saved with the extension .sb2.

C. Label the parts of the Scratch window.



D. Application-based questions.

 Aarav wants to make a Scratch project wherein he wants to move the Sprite in forward direction by 20 steps. Suggest him the appropriate block to perform this action.

	74.			
	SECT	ION - B		
Multiple-choice qu	uestions.			
cratch 2.0 was offic	ially released on	2013.		
. July 4	b. May 9	c. June 2		
	contains the set of	blocks, which is used to p	rogram the Sprite.	
. Blocks Palette	b. Stage	c. Scripts Area		
	block draws a line a	s the Sprite moves on the	stage.	
pen down	b. move 10 steps	C. turn (15 degrees		
/ho is the founder	of Scratch?			
. James Gosling	b. Tim Berners-Lee	c. Mitchel Resnick		
nswer the follow	ving questions.			
/hat do you know al				
			2222	
/hat is a Sprite?				
		88,248.2		
Explain any two main parts of the Scratch window.				
Profes in No		era get an	a production	

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Learning While Playing





The teacher asked the students to make a chart, displaying their daily routine of work, in correct sequence. Number the steps in the order in which they are done.

























LAB SESSION

Perfection Through Practice



A. Practice the following programs and see the change in the Sprite's movement.

move (200 steps)
turn (* 180 degrees)
pen down
change pen color by (20)
set pen size to (10)

move 100 steps
turn (* 150 degrees

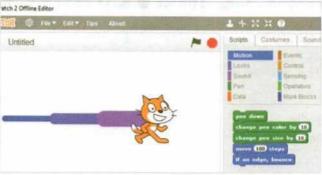
move 10 steps
if on edge, bounce
pen down
change pen color by 10

move 50 steps
turn (* 50 degrees
pen down
change pen color by 20
set pen size to 10

В.

(1) Drag the following blocks in the Scripts Area of the Scratch window and save the

project.



Modify the following blocks in your script and observe the difference while running the program again.

- Decrease the steps in move 100 steps block to 10.
- Remove change pen size by 10 and if on edge, bounce blocks from the script.
 - Add the block turn (19 degrees after move 10 steps and change the degrees to 30. turn (30 degrees
- change pen color by 10
 niove 10 steps

(2) Drag the following blocks in the Scripts Area of the Scratch window and save the project.



Modify the following blocks. Run the script again and observe the difference.

- Decrease the steps in move 150 steps block to 100.
- Increase the degrees in turn (5) (15) degrees block to 80.
- > Change the pen size to 5 in set pen size to 10 block.
- Add stamp block after the set pen size to 5 block.



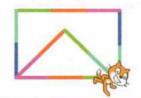
PROJECT WORK

Using Creativity

Draw the given images in Scratch with a colourful Pen style.









SIMPLE MOVEMENT OF SPRITE

LEARNING IN THIS CHAPTER

- Creating a New project
- Changing the appearance of Sprite
- How to make a Sprite say something?

- Repeating actions
- Adding sound

Students! In the previous lesson you learnt about the components of Scratch, i.e., how to open Scratch and make simple projects using blocks from Motion and Pen block menu. In this lesson, we will learn about changing the appearance of Sprite, changing its colour and size, repeating actions, making the

Sprite say something, and adding sound effects to a project.

CREATING A NEW PROJECT

- Open Scratch window. Click on the File menu.
- Choose the New option. A new project opens up with a default cat Sprite on the stage.

New ripts Costumes Sounds Open lotion Events Save ooks Control Save as Control Save as Operators Record Project Video Data More Blocks Share to website Check for updates int in direction 90* Ouit int towards mouse-pointer

Figure 9.1: Opening a New Project

> CHANGING THE APPEARANCE OF SPRITE

When you start a new Scratch project, it begins with a cat Sprite. You can edit the looks of the Sprite by changing its costume. The **Looks** block menu controls the look of the Sprite.

To change the Sprite's look, follow the given steps.

- Click on the Costumes tab to see and edit the Sprite's costume.
- The New costume options are displayed as shown in Figure 9.2. These options are: Choose costume from library , Paint new costume /, Upload costume from file , and New costume from camera . Here, we will learn the method to choose a costume from the library.
- Click on Choose costume from library button. The number of choices will appear in the Costume Library dialog box.
- Select the Animals option from the Category section.



Figure 9.2: Selecting Costumes Tab

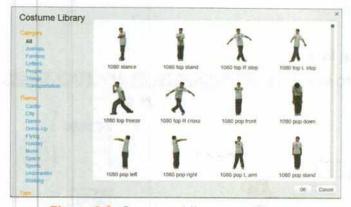


Figure 9.3: Costume Library Dialog Box

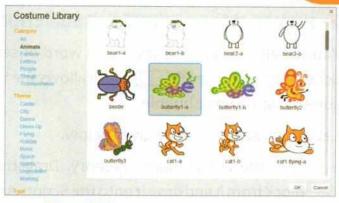


Figure 9.4: Selecting Animals Category

- Select butterfly1-a Sprite and click OK.
- Observe that the new costume will be added under the Costumes list as well as displayed on the stage.
- Select the Scripts tab and click on the Motion block.
- Drag out the move 10 steps block from the Motion category and drop it on to the Scripts area. Click inside the number box and change the steps value from 10 to 20.
- Now, select the **Looks** block category. Click and pull out the change color effect by 25 block onto the Scripts Area. Place it below the move 20 steps block.

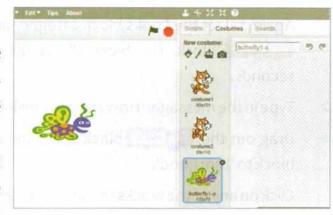


Figure 9.5: Sprite Costumes List



Figure 9.6: Sprite Changing its Appearance

NOTE The change color effect by 25 block changes the colour and other graphical effects applied to the Sprite by the specified number.

- Now, pick the next costume block and snap it below the change color effect by 23 block in the script.
- Click on any of the blocks to run the block stack. Observe the Sprite changing its costume and colour.

Notice that the **Scripts** tab and the **Costumes** tab share the same space. You can move back and forth by clicking on each tab at the top.

> HOW TO MAKE A SPRITE SAY SOMETHING?

You can also make the Sprite say a word or sentence in a Scratch project. The say Hellot block allows the Sprite to say something in a voice bubble.

Let us look at the example given below.

- Click the Looks block category. Drag the block from it and drop it onto the Scripts Area.
- Now, click on the **Control** block and drag the block to the Scripts Area. Snap these two blocks together. This block makes the Sprite wait for the specified number of seconds before moving to the next block of the script.



Figure 9.7: Sprite Saying a Message

- Again, select the **Looks** block category and place the say Howare you? for 2 secs block beneath the block. This block allows the Sprite to say something for the specified number of seconds.
- Type in the message: 'How are you?' inside the text space of the block.
- Drag out the will block again and drop it at the end of the script. Change the text of the block to 'I am good'.
- Click on any of the blocks to run the block stack.

KNOW MORE ABOUT THE LOOKS BLOCK

change size by 10: This block is used to change the size of the Sprite by the specified amount.

Let us make a Scratch project using blocks that have been explained to you. Place the blocks one by one as shown in Figure 9.8. Now, click on the script and observe the Sprite changing its colour and size.



Figure 9.8: Changing the Size of the Sprite

REPEATING ACTIONS

Repeat instructions help in controlling the execution of the program. You can repeat the actions of the Sprite as many times as needed. You will get various blocks to repeat the actions in the **Control** block category. Blocks held inside the mentioned in the block.

Let us learn to use the repeat block in the next example.

- Pick the block and place it onto the Scripts Area. Change the value from 10 to 15.
- Drag the turn (* 15 degrees block and move 10 steps block from the Motion block palette and drop them onto the Scripts area.
- Change the value in both the blocks to 30.
- Now, place them inside the shown in Figure 9.9.



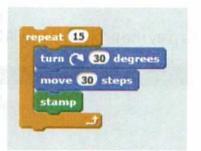


Figure 9.9: Stack

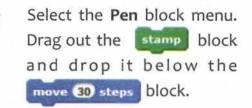


Know the Fact

A loop is a sequence of

instructions that is repeated until a certain

condition is satisfied.



Click on any block to run a stack and observe the repeated actions.



Stop button

The **Stop** button is placed on the top-right corner of the stage. It is red in colour and used to stop the project at any time during execution.

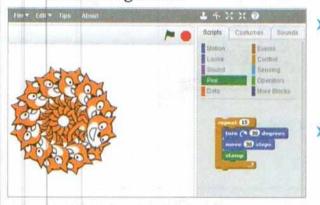
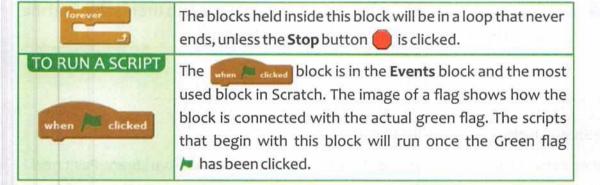


Figure 9.10: Sprite Repeating Actions

KNOW MORE ABOUT THE CONTROL BLOCK



To move a block of commands anywhere in the Scripts Area, click on the top block of the script and drag the stack to the place where you want to place it.

> ADDING SOUND

There are many ways to add sound to your Scratch project. Here, we will discuss the blocks present in the **Sound** block menu that are used to add sound.



Let's Know More

Green flag

It is a tiny icon placed at the top-right corner of the stage screen. Clicking on the green flag will run the script.



- Make the script by dragging out the blocks as shown in Figure 9.11 and stack them on top of each other.
- Click on the Script to play the project. You will hear the sound of a cat, i.e., 'Meow' and drum beats.

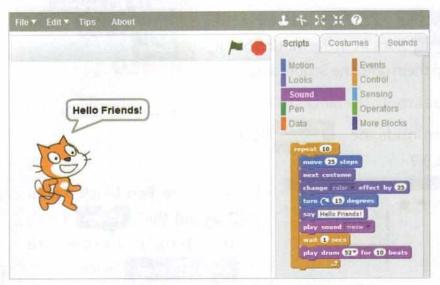
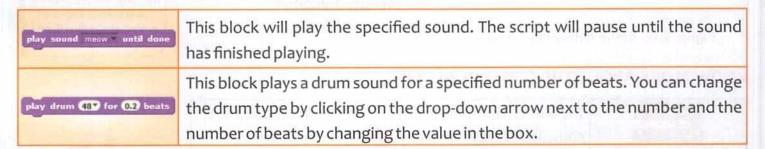


Figure 9.11: Adding Sound in a Project

KNOW MORE ABOUT SOUND BLOCKS





- > To change the Sprite's looks, we can use the Costumes tab.
- There are four options to change the costume of a Sprite-Choose costume from library, Paint new costume, Upload costume from file, and New costume from camera.
- The say Hello! block allows the Sprite to say something in a voice bubble.
- The _____ block is in the Events block, and is designed to start a script.
- The Stop button is used to stop the project at any time during execution.
- The Sound block contains many blocks to play sound in your Scratch project.
- The Control block category includes various blocks to repeat the actions of the Sprite.



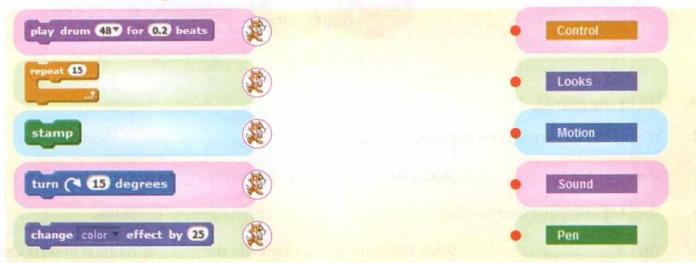


SECTION - A

A.	Fill in the blanks.					
1.	When you start a new Scratch project, it begins with a					
2.	Theblock allows the Sprite to say something in a voice bubble.					
3.	The Stop button is placed on theright corner of the Stage.					
4.	Theblock allows the Sprite to wait for the specified number of seconds.					
5.	The block will play the specified sound, pausing the script until the sound has finished playing.					
HII	Top play sound () until done say () Cat Wait () secs					
В.	State True or False.					
1.	You can make a Sprite say something in a voice bubble.					
2.	You can not change the costume of the Sprite with the help of Costumes tab.					
3.	The Sound block menu contains blocks to play sound in your Scratch project.					
4.	The Stop button is of green colour.					
5.	You can repeat the actions of a Sprite as many times as needed.					
c.	Application-based questions.					
1.	Vansh wants to make a Scratch project where he wants to use different costumes of the Sprite Suggest him the correct block to do this.					
2.	Prakhar wants to stop the Scratch project before it ends. Suggest the correct button to stop the Scratch project any time during the execution.					



D. Match the following.



SECTION - B

A.	Multiple-choice o	uestions.				
1.	The	block controls the looks of	a Sprite.			
	a. Looks	b. Sound	c. Control			
2.	The Scripts tab and	the Costumes tab share the	space.			
	a. Same	b. Different	c. Entire			
3.	The say Hollot block allows the Sprite to say something in a voice					
	a. Line	b. Bubble	c. Circle			
4.	To move a block of of the script.	commands anywhere in the Script	s area, click on the	blocl		
	а. Тор	b. Bottom	c. Left			
В.	Answer in one wo	ord or sentence.				
1.	Name the block that	allows the Sprite to change the co	stume.			

Which block allows the Sprite to say something for the specified number of seconds?

Which option do we use to choose Sprite's costume from the library?



2.

3.

	Name the block that is used to run the script, again and again. Mention the block category whe found.	re
	Answer the following questions.	
	Name any two blocks from the Looks block menu in Scratch.	
	Name the options that are available for changing the costume of a Sprite.	****
	Briefly explain the use of block in Scratch.	
	Which block should be used to play the sound of a Sprite?	
	What is the purpose of using the liked block?	
,		

Learning Computers with KIPS 103





LAB SESSION

Perfection Through Practice

A. Make the following projects in Scratch to create different patterns.

```
1
   move -200 steps
   turn 🖹 45 degrees
   wait 1 secs
   pen down
   set pen size to 8
   set pen color to
   repeat 10
     move 100 steps
      wait 0.2
     turn (4 90 degrees
     move 100 steps
     wait 0.2 secs
     turn 🔊 90 degrees
     move 100 steps
     wait 0.2 secs
     turn ( 90 degrees
     move 100 steps
     wait 0.2 secs
     turn 🖹 90 degrees
     move 100 steps
     wait 0.2 secs
     turn ( 90 degrees
   move 100 steps
   say I did it !!!!
```

```
pen down
change pen color by 10
set pen size to 8
repeat 1
  move 150 steps
  turn ( 90 degrees
  wait 1 secs
  move 150 steps
  turn ( 90 degrees
  wait 1 secs
  move 300 steps
  turn (* 90) degrees
  wait 1 secs
  move 300 steps
  turn ( 90 degrees
  wait 1 secs
  move (150) steps
  turn (4 90) degrees
  wait 1 secs
  move 150 steps
  turn (4 90 degrees
```

```
say Let us make a Zig-Zag! for 2 secs
pen down
move 150 steps
turn 🔊 90 degrees
move 150 steps
wait 1 secs
turn ( 180 degrees
pen down
set pen size to 5
change pen color by 10
  move 200 steps
  wait 0.2 secs
  turn ( 90 degrees
  move 20 steps
  wait 0.2 sees
  turn ( 90 degrees
  move 200 steps
  wait 0.2 secs
  turn (90) degrees
  move 20 steps
  wait (0.2)
  turn 🔊 🤫 degrees
move 200 steps
wait 1 secs
say I did it!
```

B. Make the following project in Scratch using the blocks displayed on the Scripts Area.

After creating the project, modify the stch 2 Offline Editor script as per the instructions given below:

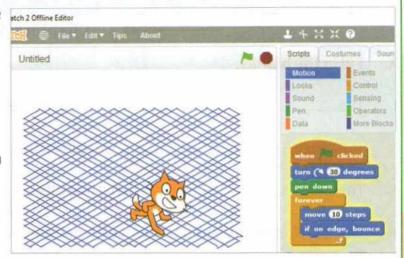
- a. Change the colour of pen
- b. Increase the number of steps
- c. Let the Sprite say something
- d. Replace the



block with



block



GROUP DISCUSSION

For Concept Clarity

Discuss the topic Different ways of changing the look of a Sprite with the students.



PROJECT WORK

Using Creativity



The teacher asked Priya to make a Scratch project, describing the Health Hygiene Habits. Suggest some of the suitable blocks to display the following sentences on the stage. The first one has been done for you.



- Wash your hands before and after eating.
- 2. Take a bath every day.
- Brush your teeth in morning and evening.
- 4. Avoid eating junk food.
- 5. Trim your nails regularly.



HINTS

Add creativity to your project by changing the appearance of the Sprite and adding new costumes while displaying a new habit. Also, add some sound effects to your project.

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WORKSHEET

	nda roka	C	hapters 5-9	1	V + 12	
A.	Fill in the blanks.					
1.	Thetool is used to add 3D objects in your drawing.					
2.	In Scratch,	is a co	llection of step-v	vise instructions given	to a Sprite.	
3.	The	refers to the ove	erall size (genera	lly height) of the letter	s.	
4.	Word 2016 opens a blank	document with the	ne temporary na	me		
5.	Ais a s	sequence of instru	ıctions that is rep	eated until a certain co	ndition is satisfied	
Н	NTS Document1	Script	Loop	Font size	3D Library	
B.	State True or False.					
1.	We should not press the	We should not press the Enter key at the end of each line.				
2.	The Open panel displays	The Open panel displays a list of projects saved in Paint 3D.				
3.	Scratch is one of the easiest computer languages.					
4.	Justified alignment mea	ns that the text is a	aligned with the l	eft margin.	HARLING THE STATE OF THE STATE	
5.	In Scratch, a new project	opens up with de	fault Cat Sprite o	n the stage.	ROTE IN OR COMPANY	
c.	Complete the following	ng shortcut com	nmands.		a tone make it	
	To create a new doo	cument in Word	3		+ S	
	To remove the Su	bscript effect	3	Alt +	inga-n usa La	
	Beginning of the cur	rrent document	3	Ctrl +		
	To save a project	t in Paint 3D	3	Shift +	+ Home	
	To close the Wor	d application	3	Shift +		
	One character	to the left	The same		+ N	

WORKSHEET

Chapters 5-9

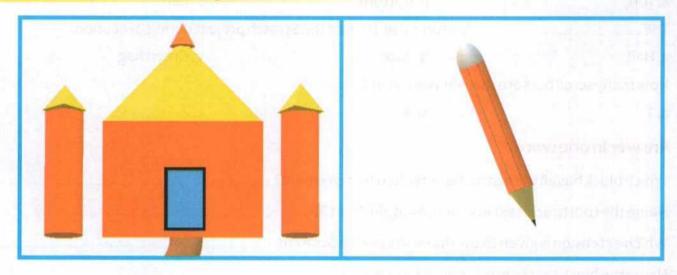
Choose the right answer.				
Where can you find the Eraer tool?				
	a. Brushes panel	b. 2D shapes	c. 3D shapes	
	Thei	s a small graphic character tha	at performs actions in a Scratch pro	oject
	a. Sprite	b. Stage	c. Script	
3. To move a block of commands anywhere in the Scripts Area, click on the block of the script.				
	a. Top	b. Bottom	c. Left	
ŀ	Theb	outton is used to halt the Scrat	ch project during execution.	
j	a. Halt	b. Stop	c. Green flag	
	How many scroll bars are ther	e in Word 2016?		
į	a. 1	b.4	c.2	
1	Answer in one word.			
	Which block has all the instruc	tions related to movement?		
0.00	Name the tool to add text in yo	our drawing in Paint 3D.		
	Which extension is given to th	e drawing saved in Scratch?		
	Name the block that controls	the looks of the Sprite		
	Answer the following que	stions.		
	Which tool in Paint 3D is used t		sh?	
	vinerios, in alicopisadea	io mercuse the size or the brus		
What is the green flag button used for?				
Name any two blocks present in the Control block menu.				
What do you understand by Editing?				
3	Define the term 'alignment'. Name the types of alignments available in Word 2016.			

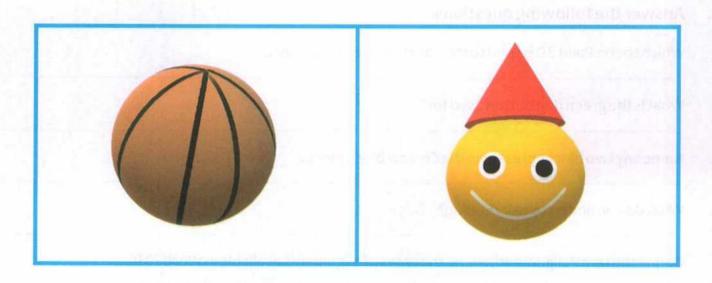




Students! You have learnt how to draw in Paint 3D using various tools. Let us make beautiful and colourful drawings with it.

Project 1: Create these drawings in Paint 3D.







Project 1: Open MS Word and make a poster on Good Manners. Set it on your desktop as a wallpaper and take a printout of the poster.

GOOD MANNERS

- Always respect your elders.
- Greet your elders with respect.
- Always throw garbage into the dustbin.
- Never scribble on walls.
- Wash your hands before and after every meal.
- Never eat uncovered food.
- Always clean the table after taking meals.
- Avoid eating junk food, like chips, burger, pizza, etc.

INSTRUCTIONS

- ✦ Heading Font Showcard Gothic
- Font Size 20
- → Colour-Red
- ◆ Text Font Chaparral Pro
- ♦ Font Size 14
- ♦ Text Colour Black
- ◆ Font Style Bold

HINTS

Make the faces of children, balloons, and stars in Paint 3D. Bring them in the MS Word document by using the Cut and Paste commands.

Project 2: Create a poster on Happy Teacher's Day in MS Word.

Hoppy Teacher's day Time you spend planning, E fforts you make. A dds power to learning, C hances you take. H ats off to our teachers, E ach one a gem. R ecognised now. We S alute them!

INSTRUCTIONS

- ♦ Heading Font Skinny
- ◆ Font Size 36
- ♦ Colour-Blue
- Text Font Arial Rounded MT Bold
- → Font Size 16
- Text Colour Green and Red







INDIA -

Clean up the Clutter,

Shun the Litter.

Join each one of us,

To make **INDIA** Glitter!

Project 4: Open MS Word and make a beautiful poster on the Important Factors to be Disciplined.



IMPORTANT FACTORS

to be Disciplined



- Wake upearly in the morning.
- Do not be late to school.
- Do not make the classroom dirty.
- Speak politely.
- Be obedient to your elders.
- Do your homework regularly.
 - Use Text Effects from the Font group to add a reflection to the text.
 - Download the desired pictures from the Internet by selecting the Insert > Online Pictures option.

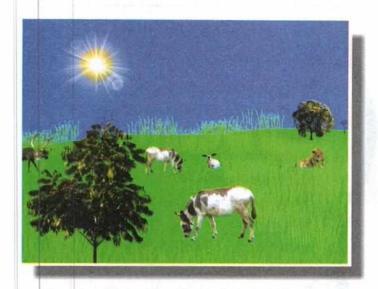


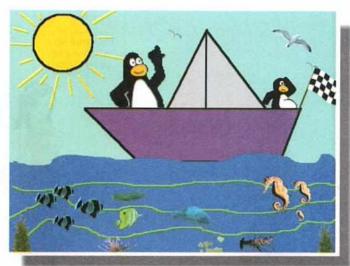
HINTS



Project 1: Draw a Forest Scene in Tux Paint.

Project 2: Create a beautiful Sea Scenery.

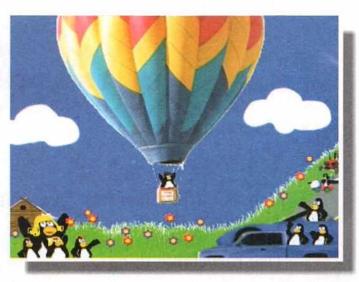




Project 3: Draw the Road View by using the tools that you learnt in Tux Paint.

Project 4: Create the Hot Air Balloon Scenery.





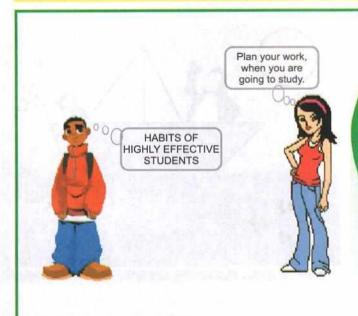


We used various tools, like Lines tool, Paint tool, Stamp tool, Brush tool, and Magic tool to make these paintings in Tux Paint.

> SCRATCH

Project 1: Create a project and let the Sprite say the following points in voice bubbles. Add movement to the Sprite and change its costume with each new sentence.





HABITS OF HIGHLY EFFECTIVE STUDENTS

- Plan your work. when you are going to study.
- · Set a regular time and place to study.
- Never put off your study session due to lack of interest in the subject.
- Start with the most difficult subject.
- Study with a focused mind and avoid distractions.
- Avoid rote learning but study with understanding.
- Rewrite the important key points in your own words.

Project 2: Create a project on **Steps to prevent Global Warming** in Scratch. Add movement to the Sprite and change the costume with each new sentence.



Steps to prevent Global Warming

- Plant more trees.
- Conserve water.
- Use eco-friendly fuels, like solar energy, CNG, etc.
- Use recyclable things.
- Turn off lights when not in use.
- Replace bulbs with CFLs and LEDs.



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SYLLABUS

Total Questions: 35

PATTERN & MARKING SCHEME

Section (1) Logical Reasoning (2) Computers & IT (3) Achievers Section

No. of Questions 5 25 5

Marks per Ques. 1 1 2

Section 1: Patterns, Analogy and Classification, Coding-Decoding, Mirror Images, Embedded Figures, Alphabet Test, Ranking Test, Grouping of Figures, Figure Matrix, Geometrical Shapes, Days and Dates & Possible Combinations.

Section 2: Fundamentals of Computer, General Information about Computers, Storage Devices, Parts of Computer, Uses of Computer, Input and Output Devices, Introduction to Internet, MS-Paint, Introduction to MS-Word (Opening, Closing, Saving and Printing a Word document, Components of MS-Word window, Editing commands like Cut, Copy, Paste, Undo and Redo, Moving in a document using Home and End Keys), Latest Developments in the field of IT.

Section 3: Higher Order Thinking Questions - Syllabus as per Section 2.

Questions are based on Windows 7 and MS-Office 2010.

Visit www.sofworld.org for more details.

LOGICAL REASONING

Which of the following options will complete the pattern in Fig. (X)?



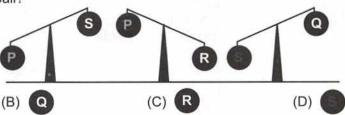




(C)



2. Which is the heaviest ball?



- 3. If ⊕ is coded as +, ⊙ is coded as , ♀ is coded as > and is coded as <, then which of the following is NOT true?</p>
 - (A) 2⊕594
- (B) 5⊙3[™]7
- (C) 10⊕5♀5
- (D) 40227

COMPUTERS AND INFORMATION TECHNOLOGY

- Which of the following icons is used to draw circle in MS-Paint of Windows 7?
 - (A)
- (B) (
- (C) \
- (D) \sim

5. Which of the following is an input device?





(B)



(C)



(D) Both (A) and (B)

Select the INCORRECT match of brushes in MS-Paint of Windows 7 with their corresponding names.

(A)



Marker



- Natura





Calligraphy (D) brush 1



- Watercolor brush

7.	Select the odd or	ne out.			
	(A) Google	(B) Bing	(C) Yahoo	(D) Internet Explorer	
8.	Which of the following statements about a computer is NOT correct? (A) You can watch movies on it. (B) You can solve your sums on it. (C) You can play games on it. (D) You can cook food with it.				
9.	The key that eras	es characters towards t	he left is	- Opinion in the	
	(A) —Backspace	(B) Delete	(C) Enter	(D) Spacebar	
10.	Find the odd term (A) Keyboard	out. (B) Mouse	(C) Monitor	(D) Joystick	
11.	The control unit of the computer controls the (A) Working of the computer keyboard (B) Flow of electricity within the computer (C) Flow of data in the computer (D) Performance of all arithmetic and logical operations				
12.	2. MS-Paint is a Windows program that is used for (A) Calculations (B) Writing letters (C) Drawing purposes (D) Preparing presentations				
13.	Which of the followard (A) Googl	ewing is NOT an example (B) facebook		g (D) YAHOO!	
	To the same of the	ACHIE	VERS SECTION		
14.	quickly access it. of steps required her by rearrangin (A) 4 > 1 > 2 > (B) 1 > 2 > 4 > (C) 4 > 3 > 2 >	e a shortcut for MS-Word But she does not know to follow to create a deg the given steps in the 6 > 5 > 7 > 3 7 > 3 > 6 > 5 7 > 1 > 5 > 6 7 > 2 > 4 > 3	the correct sequence esktop shortcut. Help	1. Select/click All Programs 2. Click Microsoft O ce folder 3. Click Deaktop (create shortcut) option 4. Click on Start button 5. Right click 6. Go to Microsoft Word 2010 7. Select Send to from the pop-up menu.	
15.	 It is used to re 	that converts textual dat ead the text information he entered text into spok	to blind persons.	(D)	
		SPACI	FOR ROUGH WORK	e in Tgommiye attlee tement	