

Chapter- 2

HARDWARE AND SOFTWARE**STUDY NOTES**

The basic parts of computer system are







- **HARDWARE**
 - **SOFTWARE**
- **HARDWARE**

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

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




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 .

<p style="text-align: center;">Trackball</p>  <p style="text-align: center;">It has a ball on its top. To move the pointer on the screen, roll the ball with your finger</p>	<p style="text-align: center;">Scanner</p>  <p style="text-align: center;">A scanner copies a picture or text printed on a paper into the computer</p>	<p style="text-align: center;">Web camera</p>  <p style="text-align: center;">It is used to share pictures and live chat with our friends and relatives using internet.</p>
<p style="text-align: center;">Microphone</p>  <p style="text-align: center;">A microphone is used to give our voice and other sounds as input to the computer</p>	<p style="text-align: center;">Light Pen</p>  <p style="text-align: center;">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.</p>	<p style="text-align: center;">Joystick</p>  <p style="text-align: center;">It is used for playing games. It helps to move items on the screen.</p>

OUTPUT DEVICES:

The device that display information and result are called the Output Device. Example: Monitor, printer.

 <p>Printer: It prints the output that you see on computer screen on paper</p>	 <p>Speaker: It is used to listen sound and music from computer.</p>	 <p>Monitor: A monitor looks like a TV screen. It displays the processed information.</p>
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STORAGE DEVICES:

The device that used for storing the data is called storage devices. Hard disk is the main storage device which stores entire work that we do on computer.

 <p>CD: CD stands for compact disk. CD is round, flat, and shiny disk that stores a lot of information.</p>	 <p>Hard Disk: Hard Disk is a device that stores a huge amount of data and information.</p>	 <p>Pen Drive: It is small in size but can store and transfer a lot of data from one computer to another</p>
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SOFTWARE:

Software is that part of a computer which cannot be touched. (or) Set of instructions given to the computer to do a particular work is called software.

[Let's understand software with the help of the following examples:

The parts like speakers, CD, and DVD, etc. which you can touch are hardware. Can you touch the songs and music recorded on a CD or DVD? No, because that is **software**.]



Processing is done by software. It takes the input from the user, processes output on the Monitor. There are two types of software:

i. System Software

ii. 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.

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 system

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 the 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.

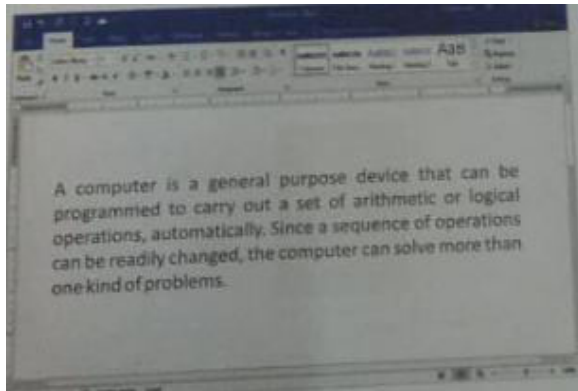
There are different types of application software that help in doing specific types of jobs

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

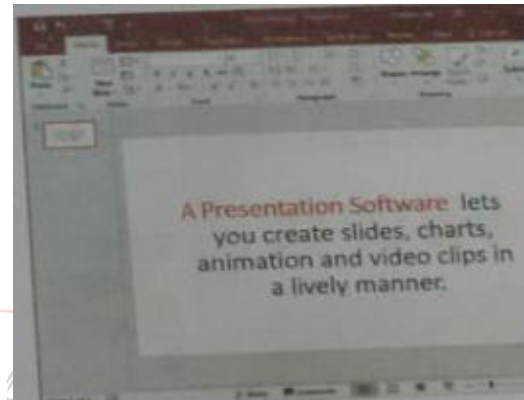
Examples: Microsoft Word, Wordpad, OpenOffice.orgWriter, etc.

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.



MS word



MS PowerPoint

Spread sheet: A spread sheet program helps you to perform calculations and display data in the form of a chart to analyze in a better way.

Examples- Microsoft excel, Lotus 123, Open office.org calc etc.

Multimedia software: It is used to create videos, animations, sounds, graphics and text with a help of degree of interaction

Examples- games software, windows media player, windows movie maker, etc

A screenshot of the Microsoft Excel application window. The spreadsheet displays a table titled "Students Performance Report" with the following data:

ROLL NO	NAME	HINDI	ENGLISH	COMPUTER	SSC
101	ALFAR	58	78	89	45
102	IVRAT	78	67	78	56
103	JAYA	76	56	78	54
104	DIPPI	78	45	56	34
105	SARIKA	88	58	76	65
106	SIMRAN	67	76	87	54

MS Excel



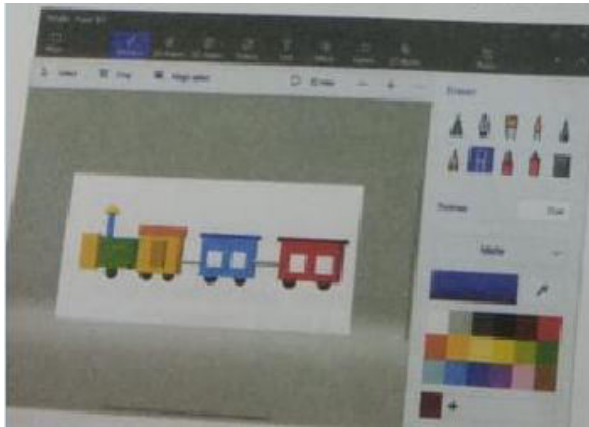
Games

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

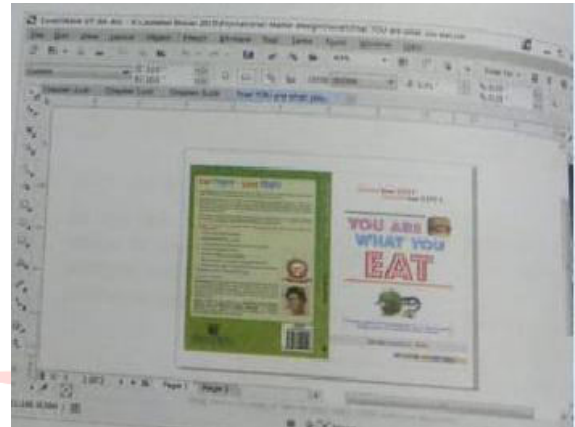
Examples- Paint 3D, Photoshop, AutoCAD, Dreamweaver etc.

Desktop publishing software- this application helps you to combine both text and graphic features design professional documents, like news letters, books, magazines etc

Examples- CorelDraw, Adobe InDesign, QuarkXPress, etc



Paint 3D



CorelDraw

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Brain Developer

SECTION A

A. Fill in the blanks.

(Hints • Software • Hardware • Operating system • Storage • Output)

1. The parts of a computer that can be touched are called **Hardware**.
2. The devices used for storing data are called **storage** devices.
3. The devices that give results after processing are called **Output** devices.
4. A set of instructions given to a computer to do a particular work is called **software**.
- 5 The **Operating system** 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. (**False**)
2. A scanner is an input device. (**True**)
3. The Paint 3D program is used for drawing pictures. (**True**)
4. A printer is an output device. (**True**)
5. The devices that give us output are called input devices. (**False**)

C. Application-based questions.

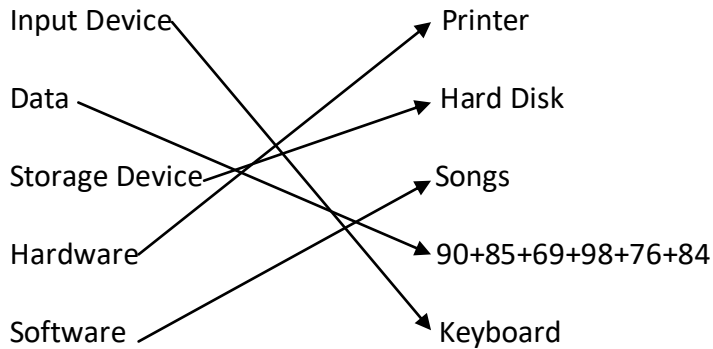
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1. Ayush wants to record a song in the computer. Which input device can he use?

Ans: Microphone

2. Sheena wants to draw a greeting card using a specific software. Which type of software will she use ?

Ans: Desktop publishing software

D. Match the following**Section-B****A. Name the device used for each of the following jobs**

1. A device commonly used for playing games. **Joystick**
2. A device used to store huge amount of data and information. **Hard Disk**
3. A device that can read words, pictures, or numbers from paper and store them in a computer. **Scanner**
4. A device that is used to hear sound and music stored in a computer. **Speaker**

A. Answer the following questions**1. Define the term software, Name it's types.**

Ans: Software is that part of a computer which cannot be touched. (or) Set of instructions given to the computer to do a particular work is called software. There are two types of software:

i. System Software**ii. Application Software****2. What is a storage device? Give any one example.**

Ans: The device that used for storing the data is called storage devices. For example: Pen Drive, Hard Disk.

3. Which hardware devices are used to enter words, numbers, or pictures?

Ans: Keyboard, mouse, joystick, microphone are used to enter words, numbers, or pictures.

4. Which application software is used for typing and making corrections in the text?

Ans: Word processing software is used for typing and making corrections in the text

5. Name the program used for performing calculations.

Ans: Spreadsheet program is used for performing calculations.

