ODM EDUCATIONAL GROUP
Changing your Tomorrow

CLASS : V
SUBJECT : COMPUTER
CHAPTER NUMBER:1
CHAPTER NAME :EVOLUTION OF COMPUTER
SUBTOPIC :VARIOUS CALCULATING DEVICES,AND INVENTORS

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300-BC ABACUS

- Abacus was the first mechanical device used for calculations. It was developed in China.
- It was made up of a wooden frame with rods, each having beads.
- The frame was divided into two parts – Heaven and Earth.
- Each rod in Heaven has 2 beds and each rod in Earth had 5 beds.
- Abacus was used for addition, subtraction, multiplication, and division.

PASCAL'S ADDING MACHINE

•Blaise Pascal, a French mathematician, invented an adding machine called Pascal's Calculator, at the age of 19, in the year 1642.

• It is used gears, wheels, and dials.

• On this machine, numbers were displayed by rotating the wheels, it was capable of •performing addition and subtraction.

• The gear principle was further employed in many mechanical calculators, Taxi metre is a •perfect example of a mechanical calculator.

LEIBNIZ CALCULATOR

•Leibniz, the famous German mathematician improved on the Pascal's machine in 1671 to make the Leibniz calculator. It was a mechanical device.

• Apart from performing addition and subtraction,From here you can type content.

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EARLY IT INVENTORS

CHARLES BABBAGE

Charles Babbage, a British mathematician, is considered as the Father of Computers.

He invented a working model of the mechanical computer called the Difference engine

in 1822 and the Analytical engine in 1833.

The Analytical Engine had five units – Input, Output, Store, Mill, and Control.

These units worked like the modern computer. All the computers that are used now a

days, are based on it.

AUGUSTA ADA LOVELACE

• Lady Augusta Ada Lovelace, was an English mathematician and writer. She is chiefly known for her work on Charles Babbage's Analytical engine.

•She is considered as the First Programmer who suggested Binary Data storage (0 and 1) instead of decimal number system.

GEORGE BOOLE

• George Boole was an English mathematician.

• He linked them with the binary number system and represented positive results by 1 and the negative ones by 0.

• This theory of Boolean Logic became the fundamental principle for the design of computer circuitry.

DR HERMAN HOLLERITH

- Herman Hollerith, an American statistician, invented the Tabulating machine.
- This machine was capable of reading data, processing it, and giving the desired output.
- The input in this machine was given through punched cards.
- These punched cards were used to record and store data or information.

LEARNING OUTCOME:

Students will get knowledge about early calculating devices as well as inventors.

THANKING YOU

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