EVOLUTION OF COMPUTERS DO THE FOLLOWING QUESTIONS

- 1. Initially who used computer and why .
- 2. Why computer was not used by small organisations and individuals earlier.
- 3. Name few places where computers are used .
- 4. The term 'computer ' is derived from which word .
- 5. What you do with the help of a computer.
- 6. Why computer is a **versatile** device ?

FULL FORMS

- a. **EDVAC Electronic Discreate Variable Automatic Computer**.
- b. ENIAC Electronic Numerical Integrator And Computer .
- c. UNIVAC 1 Universal Automatic Computer 1.
- d. IC Integrated Circuits
- e. PC Personal Computer

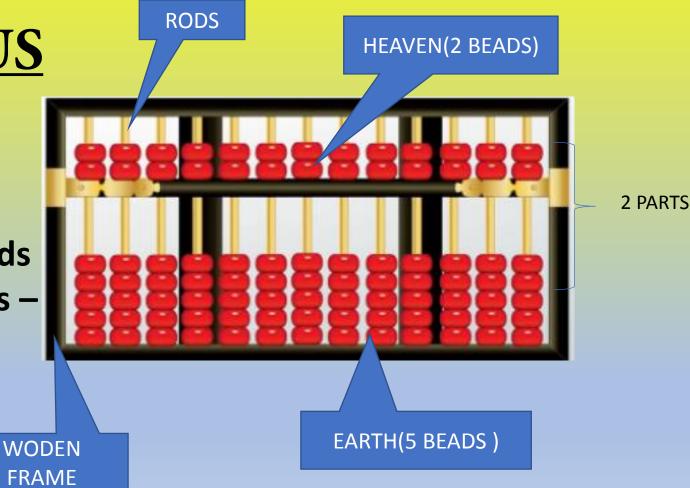
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- f. C-DAC Centre for Development of Advance Computing .
 - Artificial Intelligence .

HISTORY OF COMPUTER CALCULATING DEVICES

3000 – BC ABACUS

- First mechanical device for calculation .
- Made up of a wooden frame with rods and each having beads
- Frame is divided into two parts a. Heaven –two beads b. Earth - five beads
- Used for + , , x , -:-



1617 – John Napier (calculating device) – Napier's Bone Performs +, -, x, -:- and square root 1642-Blaise Pascal-Adding machine - Pascal's calculator It used gears , wheels and dials Performs addition and subtraction Example - Taxi meter 1671- Leibniz calculator – (mechanical device) Performs +, -, x, -:- and square root

EARLY IT INVENTORSCHARLES XAVIER THOMAS-(1820)Thomas Arithmometer

First Commercial Mechanical Calculator – Performs +, -, x, -:-

CHARLES BABBAGE -FATHER OF COMPUTER Invented mechanical computer

- A. Different engine -1822
- B. Analytical engine 1833
 - Analytical engine had five units .
 - Input
 - Output
 - Storage- storing of data
 - Mill- calculating unit CPU
 - Control supervise all units

ANDRE TRUONG TRONG THI -FATHER OF PERSONAL COMPUTER -1973

MICRAL (MICRO COMPUTER) Based on Intel 8008 processor

Augusta Ada Lovelace-First Programmer

who suggested Binary storage (0 and 1) instead of decimal number system .

George Boole - Theory of Boolean logic – which became the fundamental principal for design of computer circuitry .

(positive result-1 and negative result -0)

Dr Herman Hollerith - tabulating machine

It was capable of reading data, processing it and giving the desired output.

Punch Card – used to input , record and store data or information .

John Von Neumann – started the practice of storing data and information in binary code in memory .

1944- Mark 1 – (Howard Aiken) The first automatic sequence controlled calculator 1946-ENIAC –(Neumann , Presper Eckert and John Mauchly) The first general purpose electronic digital computer. **1947-Transistors** -(John Bardeen ,William Shockley and Walter Brattain .) 1950- EDVAC –(Neumann , Presper Eckert and John Mauchly) Was build using binary code. 1951- UNIVAC 1 (Presper Eckert and John Mauchly) Worlds first commercially available computer . It was first computer to handle both numeric and text data.

GENERATIONS OF COMPUTERS

GENERATION /PERIOD	CIRCUITRY	DATA INPUT	DATA OUTPUT	EXTERNAL STORAGE	LANGUAGE	EXAMPLE
1 ^{sт} 1940-56	VACUUM TUBES	PUNCH CARD AND PAPER TAPES	PRINTOUTS	MAGNETIC TAPES	MACHINE ASSEMBLY	UNIVAC, ENIAC EDVAC
2 ND 1956-63	TRANSISTORS	PUNCH CARD AND PAPER TAPES	PRINTOUTS	MAGNETIC TAPES	FORTRAN, COBOL, BASIC	IBM 1400 IBM 350
3 RD 1964-71	IC	KEYBOARD	MONITOR	MAGNETIC DISK	PASCAL FORTRON COBOL	IBM 360
4 ^{тн} 1972 – PRESENT	MICRO PROCESSORS	KEYBOARD MOUSE SCANNER	MONITOR PRINTER SPEAKERS	MAGNETIC DISK	RDBMS C++	CRAY ½
5 TH PRESENT AND BEYOND	AI				Understand human speech , recognize patterns like face and other complex images	

TYPES OF COMPUTER Each new generation resulted in the following changes in computers. Increase in speed, storage, capacity and reliability decrease in cost and size

