

# Class: 11 Computer Science

## Chapter 1: Computer System

**Computer** - Electronic device that can be programmed to accept data (input), process it and generate result (output).

Computer + Hardware + Software = Computer System

- CPU
- Memory
- Input/Output
- Storage Device

**CPU** - Central processing Unit -

Electronic circuitry of a computer that carries out actual processing.  
- also called processor.

**Brain of Computer** \* **Integrated Circuits**: CPU placed in one or more microchips, called ICs.  
- semiconductor material.

**Functioning**:

① fetches program → ② performs operations → ③ stores result.

\* **Registers**: CPU stores the data as well as instructions in its local memory called registers.

\* **CPU** -

- **ALU**: Arithmetic Logic Unit → performs operations that need to be done as per the instructions in a program.
- **CU**: Control Unit → controls sequential instruction execution, interprets instructions and guides data flow through the computer memory.

**CPU aka Microprocessor**

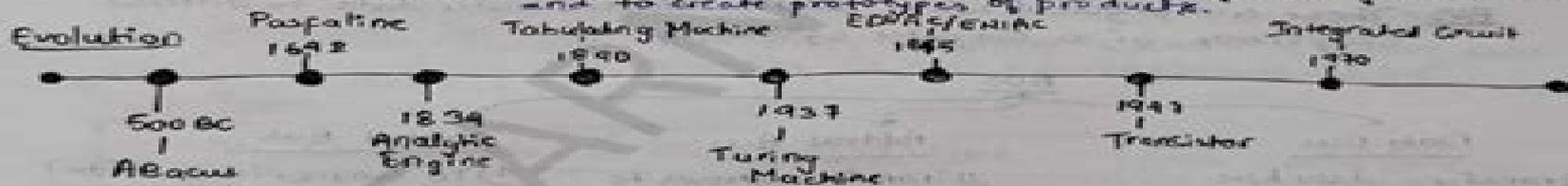
**Input device**: - The device through which control signals are sent.  
input data → Digital form.

Examples - Keyboard, Mouse, Scanner, touch screen.

**Output device**: - The devices through which control signals are received.  
digital form → human understandable form.

Examples - Monitor, projector, speaker, headphones, printer.

**3D printer**: To build physical replica. used in manufacturing industries and to create prototypes of products.



**Computer Memory**: - To store data and instructions for processing.

Units of memory: - Binary numbers (0 and 1) → Basic unit → Bits.

4-bit word → nibble (1001, 1010)

2-nibble word → byte (01000110, 01111100)

Unit	Description	Unit	Description
KB (kilobyte)	1 KB = 1024 Bytes	PB (Pebabyte)	1 PB = 1024 TB
MB (Megabyte)	1 MB = 1024 KB	EB (Exabyte)	1 EB = 1024 PB
GB (Gigabyte)	1 GB = 1024 MB	ZB (Zettabyte)	1 ZB = 1024 EB
TB (Terabyte)	1 TB = 1024 GB	YB (Yottabyte)	1 YB = 1024 ZB

# Computer Science Notes 11th Class State Board

**Jicheng Xie**



**Computer Science Notes 11th Class State Board:**

## Unveiling the Magic of Words: A Review of "**Computer Science Notes 11th Class State Board**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Computer Science Notes 11th Class State Board**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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