

# FUDENMENTAL OF IT & PROGRAMMING

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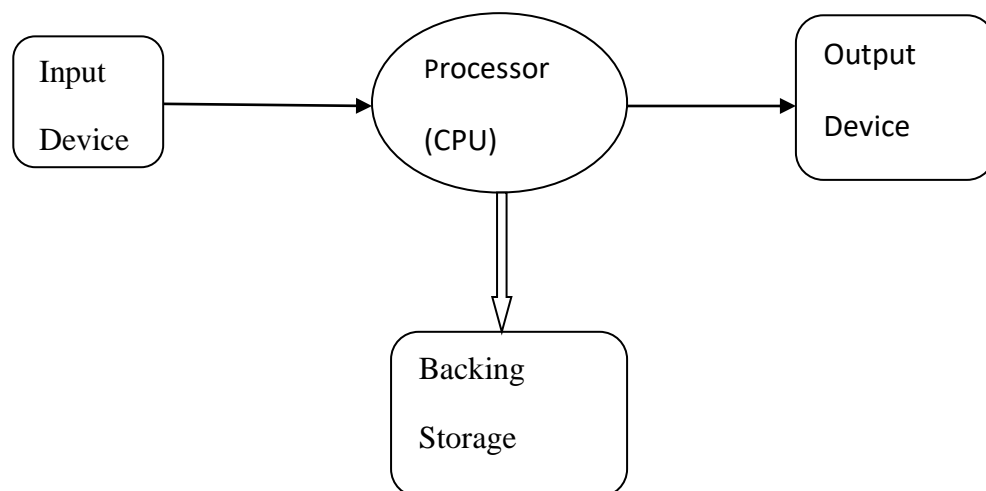
## INTRODUCTION OF COMPUTER

### Computer

It is a programmable electronic device designed for storing and processing data, based on sequence of instruction. A computer is a fast system that is organized to accept, store, and process data and produce output results under the direction of a stored program of instruction.

### Block Diagram of a Digital Computer

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### Characteristic of computer

- Speed
- Accuracy
- Storage
- Carefulness
- Versatility
- High power of money
- No feeling
- No IQ (intelligence quotient )

- **Speed:** In general, no human being can complete To solve the complex computation, faster than computer.

- **Accuracy:** since computer is programmed, so Whatever input we give, it gives result accurately.

- **STORAGE:** Computer can store mass storage of data with appropriate format.

- **Carefulness:** Computer can work for hours without creating any error

- **VERSATILITY:** we can use computer to perform Completely different type of work at the same time

- **High power of memory:** it can remember Fact/data for us.

- **No feeling:** Computer does not have emotions, Knowledge experience and feeling.

### Microcomputer

- Microcomputer are the most frequently used type Type of computer
- It is also, known as personal computer (pc)
- A microcomputer is a small computer system designed To be used by one person at a time
- **EXAMPLE:** Desktop computer, laptops

### Type of memory

Computer memory is of two basic type

- Primary memory/volatile memory:
- Secondary memory/Non volatile memory

1. **Primary memory /volatile memory:** Volatile memory is a computer storage that only maintains its data while the device is powered.

Example: RAM (Random access memory) is volatile. When we are working on a document, it is kept in RAM, and if the computer loses power, your work will be lost

2.Secondary memory/non-volatile memory:Non-volatile memory is a type of computer memory that has the capability to hold saved data even if

The power is turned off.

Example:Read- only memory (ROM),hard disk,flopped disk etc

### Random access memory

- It is also called as read write memory or the main memory or the primary memory
- The programs and data that the CPU requires during execution of a program are stored in this memory.
- It is a volatile memory as the data loses when the power is turned off.
- RAM is further classified into two types-SRAM (Static Random Access Memory)and DRAM (Dynamic Random Access Memory).

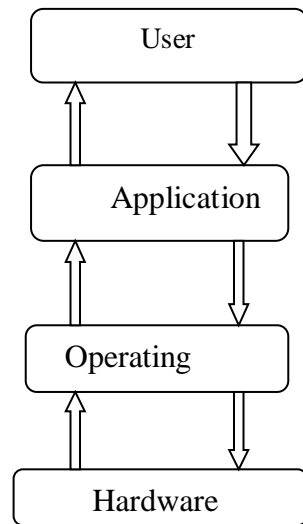
### UNIVERSAL SERIAL BUS

- A Universal serial bus (USB) is a common interface that enables communication between devices and a host controller such as a personal computer(PC).
- It connects peripheral devices such as digital camera, mice, keyboards, printers, scanners,media devices, external hard driver and flash drivers.

## Operating system(os)

- It is system software that manages computer hardware and software resources and Provides service.
- Operating system acts as manager of all the resources of computer i.e. resource manager.  
Thus, operating system becomes an interface between user and machine

## Operating System Representation



**S**

## Application of Software

- It is software created for a specific purpose, used by end user. It can be called application or simply an app.
- Example: word processor, accounting application, a web browser, an email client, media player etc.