# **UNIT - 1**

### **INTRODUCTION TO COMPUTER SYSTEMS**

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# OBJECTIVES

- × Definition of Computer system
- × Block diagram of Computer system
- × Identify the various parts of a computer system
- × Functions of each part

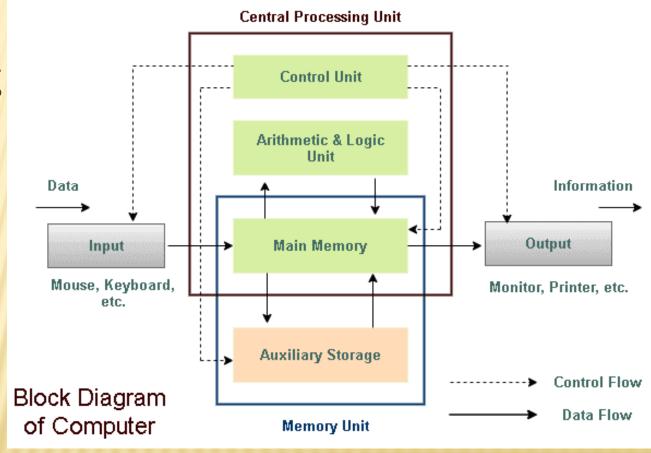
# **DEFINITION OF A COMPUTER**

- Sy definition, a computer is an electronic device that inputs data, processes data(converting it into information that is useful to people) outputs and stores information.
- Computers are controlled by programmed instructions that transform the data into meaningful information.
- Senerally a Computer is a device that accepts input, processes it, stores data, and produces output.

### **BLOCK DIAGRAM OF COMPUTER SYSTEM**

#### × Steps followed to process data

- + Input
- + Processing
- + Output
- + Storage



## INPUT

- Input: Information provided to the computer by a person, the environment, or another computer.
  - **Examples of Input** 
    - + words and symbols
    - + numbers
    - + pictures
  - + audio signals from a microphone
  - + signals from another computer
  - + temperature, speed, pressures, etc. from sensors

# PROCESSING

- Processing manipulation of data.
  - Data are symbols that represent raw facts, objects, and ideas about people, places, events, and things that are of importance in an organization.
  - A computer program or software is a series of instructions that tell a computer how to carry out a processing task.

### • Examples of Processing

- Arithmetic calculations
- Sorting a list
- Modifying pictures
- Drawing graphs

# OUTPUT

- Solution of the version of the second sec
- Output device displays, prints, or transmits the results after processing.
- × Examples of Output
  - + images on a monitor
  - + printed documents
  - + sounds
  - + signals to device controllers

# **MEMORY AND STORAGE**

- Memory the area of a computer that temporarily holds data that is being processed or waiting to be processed, stored, or output.
- Storage The area where data can be left on a permanent basis while it is not needed for processing.
- × Examples of Storage
  - + magnetic disks
  - + CD-ROM (Compact Disk Read-Only Memory)
  - + magnetic tapes
  - + Flash disk
  - + Memory card
  - + Floppy disk