SNS COLLEGE OF TECHNOLOGY

Coimbatore-36.
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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

COURSE NAME : 23CST101-PROBLEM SOLVING & C PROGRAMMING

I YEAR/ I SEMESTER

UNIT – I INTRODUCTION TO PROBLEM SOLVING TECHNIQUES

Topic: Computer Hardware, Computer Software

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Computer Hardware

- Input devices
- System unit
- Output devices
- Storage devices
- Processing Unit:
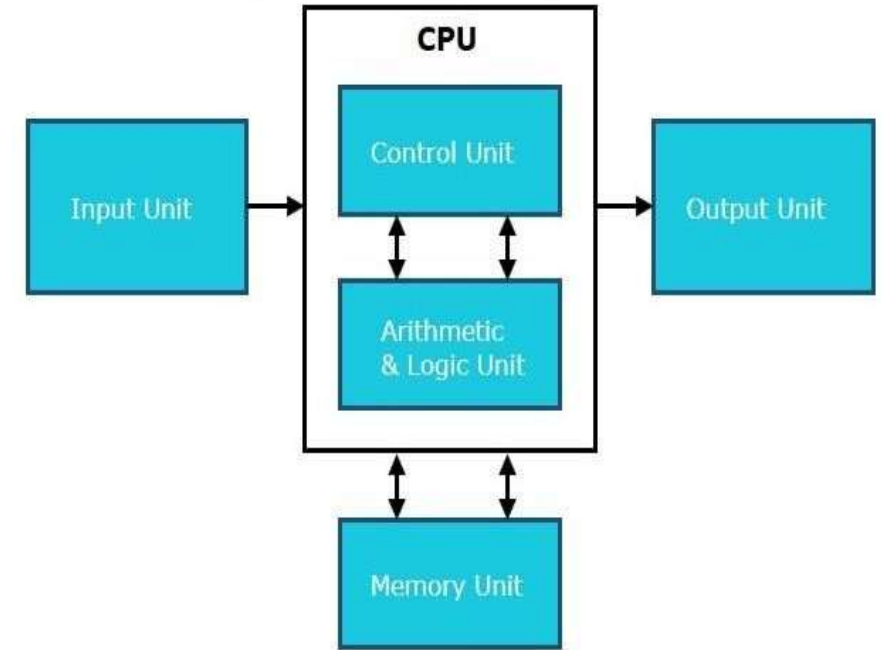 The CPU and
  Main Memory

Luai M. Malhis

CPU(Central Processing Unit)

- CPU is considered as the brain of the computer.

- CPU performs all types of data processing operations.

- It stores data, intermediate results, and instructions (program)

- It controls the operation of all parts of the computer.

Components CPU:

- Memory or Storage Unit

- Control Unit

- ALU(Arithmetic Logic Unit)

    1. Arithmetic Section

    2. Logic Section

Processor

Input Devices

The Physical Parts of a Computer System which allows data to be entered into a Computer System

- Keyboard
- Graphics Tablet
- Touch-Sensitive Screen
- Mouse
- Microphone
- Digital Camera
- Digital Video Camera
- Webcam
- Trackball
- Trackpad
- Joystick
- Scanner

Output Devices

- An output device is a device which allows data to be displayed or passed out of a computer system
- Printers
  - Laser
  - Inkjet
- Monitor
  - Liquid Crystal Display
  - Thin Film Transistor
  - Cathode Ray Tube
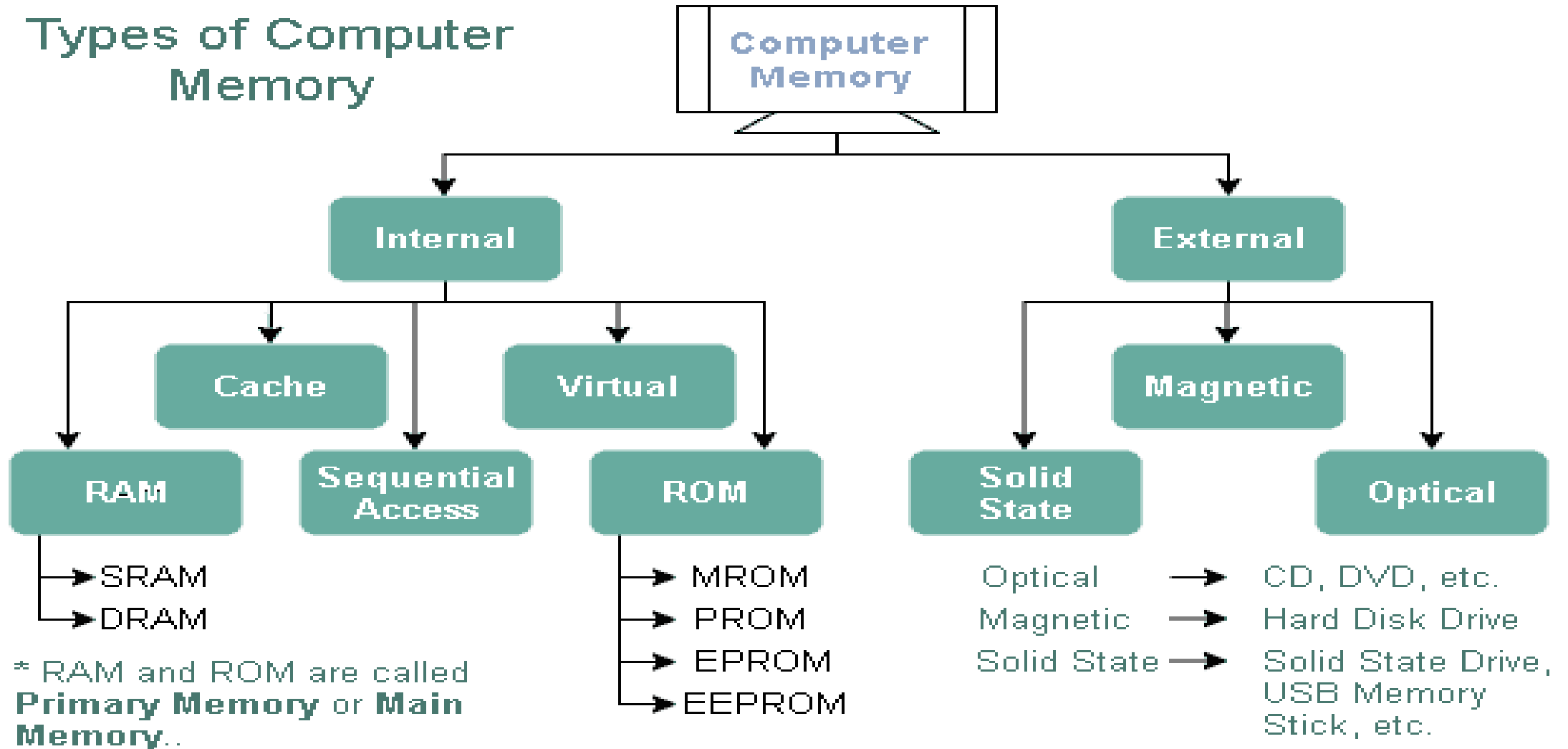- Plotter
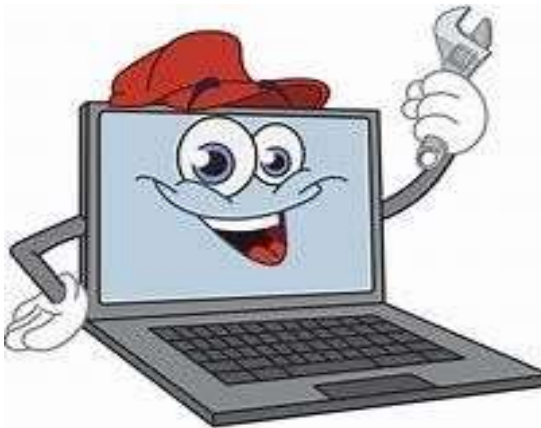- Load speaker
- Projector

Types of Computer Memory

Computer Memory

- **Internal**
  - **Cache**
    - **RAM**
      → SRAM
      → DRAM

      * RAM and ROM are called **Primary Memory** or **Main Memory**..
  - **Sequential Access**
  - **Virtual**
    - **ROM**
      → MROM
      → PROM
      → EPROM
      → EEPROM

- **External**
  - **Magnetic**
    - **Solid State**
    - **Optical**

      Optical   → CD, DVD, etc.
      Magnetic   → Hard Disk Drive
      Solid State → Solid State Drive, USB Memory Stick, etc.

Computer Software is a set of programs, which is designed to perform a well-defined function.

A program is a sequence of instructions written to solve a particular problem.

Two types of software –

1. System Software

2. Application Software

Types of Computer Software

Computer software or just software is a collection of computer programs and related data that provides the instructions for telling a computer what to do and how to do it. Any set of instructions that guides the hardware and tells it how to accomplish each task.

Systems Software

Application Software

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