

Unit 1.4.1: Memory

- Computer memory is any physical device, capable of storing information temporarily or permanently.
- Memory refers to the computer hardware integrated circuits that store information for use in a computer.

Type of Memory

Computer memory is of two basic type.

- i) Primary memory / Volatile memory
- ii) Secondary Memory / Non volatile memory.

(i) 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.

Teacher's Signature

(ii) 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, floppy disk, etc

① Random Access Memory (RAM)

- 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).

② Read only Memory (ROM)

- Stores crucial information essential to operate the system, like the program essential to boot the computer.
- It is non volatile.
- Always retains its data.
- Used in calculations and peripheral devices.
- ROM is further classified into 3 types -

PROM, EPROM, and EEPROM