



COMPUTER MEMORY:

- Computer memory is a physical electronic device that is used to store applications and data, temporarily or permanently, as required by a computer and/or its user
- Computer memory can be primarily classified into two types
 - Primary Memory (or)main memory(or)internal memory
 - Secondary Memory(or)non-volatile memory—permanent memory(or)external memory
- Primary memory:
 1. Primary Memory is internal memory of the computer
 2. These are semiconductor memories
 3. Data is lost in case power is switched off
 4. Faster than secondary memories
 5. A computer cannot run without primary memory
 6. Primary Memory can be divided into two types
 7. They are RAM and ROM
- RAM(Random Access Memory)
 1. It is a volatile memory
 2. It randomly select and use any location of the memory directly store and retrieve data
 3. data will be erased once supply to the storage device is turned off
 4. storing data on a temporary basis
 5. Types of RAM: Static RAM and Dynamic RAM
 - i. Static RAM: Is a semi conductor memory that uses Flip-Flop to store each bit
Static means periodically refreshed
 - ii. Dynamic RAM: Is a Random Access memory that uses capacitor to store each bit
dynamic indicates that the memory must be constantly refreshed
- ROM(Read Only Memory)
 1. ROM is non-volatile memory
 2. ROM is a permanent form of storage
 3. Once data has been written onto a ROM chip, it cannot be removed and can only be read
 4. ROM stores the program that boots the computer
 5. There are five basic ROM types
 - i. ROM - Read Only Memory.
 - ii. PROM - Programmable Read Only Memory.
 - iii. EPROM - Erasable Programmable Read Only Memory.
 - iv. EEPROM - Electrically Erasable Programmable Read Only Memory.

v. Flash EEPROM memory

- Secondary Memory

1. This type of memory is also known as external memory or non-volatile.
2. It is slower than main memory.
3. These are used for storing data/Information permanently
4. These are magnetic and optical memories
5. Data is permanently stored even if power is switched off
6. Examples are Punching Devices

Magnetic Tape

Floppy Disk

Optical Discs (CD/DVD)

Hard Disk Drives

Flash Drives

