

Non-volatile Memory

- * RAM is volatile memory which contains data and instructions that is directly used by CPU for processing.
- * We try to structure the data in RAM to decrease Read/Write time to decrease less CPU cycles.
- * Data in RAM is temporary, gets reset everytime a machine starts.

⇒ Non-Volatile Memory stores data permanently

- ↳ HDD, SSD
- ↳ Pen drive, Disk
- ↳ Floppy disk
- ↳ ROM

Role of OS in Storage Management

* OS has code written for →

1. Process Management → scheduling
→ synchronisation

2. Deadlock Handling

3. Memory Management (RAM)

4. Network Management (OSI Layer)

5. Storage Management (Hard disk)

* HDD are much slower than RAM

≈ RAM 100x faster than HDD

* OS responsibility is to provide I/O system calls to the application programs.