



GROUP 4 : STORAGE DEVICES



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I. WHATS IS STORAGE IN COMPUTING?

- THE PROCESS OF SAVING AND RETAINING DIGITAL DATA.

- IT ALLOWS INFORMATION, FILES, AND PROGRAMS TO BE STORED FOR RETRIEVAL AT A LATER TIME.

- WITHOUT STORAGE, COMPUTERS WOULD NOT HAVE THE CAPACITY TO KEEP DATA PERSISTENTLY BEYOND THEIR IMMEDIATE OPERATIONS.

II.TYPES OF STORAGE: PRIMARY VS SECONDARY

ii.Types of storage: primary vs secondary

Primary Storage: This is the computer's memory (RAM) used for short-term tasks. It is fast but volatile—data is lost when the device powers off.

Secondary Storage: This is long-term storage where data remains even when the device is turned off. It includes hard drives, solid-state drives, and external devices.

III. EXAMPLES OF STORAGE DEVICES: HDD, SSD, USB FLASH DRIVES, CDS/DVDS

-HDD (HARD DISK DRIVE): A MECHANICAL DEVICE WITH SPINNING DISKS FOR STORING LARGE AMOUNTS OF DATA.



-SSD (SOLID-STATE DRIVE): A FASTER, DURABLE OPTION THAT USES FLASH MEMORY.



-USB FLASH DRIVES: PORTABLE AND CONVENIENT FOR TRANSFERRING SMALLER AMOUNTS OF DATA.



-CDS/DVDS: OPTICAL DISCS FOR STORING MULTIMEDIA OR SOFTWARE FILES (LESS COMMON THESE DAYS).



IV. DIFFERENCES IN SPEED, CAPACITY, AND COST

Device	Speed	Capacity	Cost
HDD	Moderate	High	Affordable
SSD	Very Fast	Moderate to High	Expensive per GB
USB Flash Drive	Moderate	Low to Moderate	Affordable
CD/DVD	Slow	Low	Very cheap (but outdated)



V. CURRENT TRENDS

- CLOUD STORAGE
- GOOGLE DRIVE
- ICLOUD
- AWS(AMAZON WEB SERVICES)
- MICROSOFT AZURE
- ORACLE



CONCLUSION

Storage is essential in computing for saving and retrieving data and programs . It includes primary storage (e.g., RAM) for temporary data and secondary storage (e.g., SSD, HDD) for long-term use. Different storage types vary in speed, capacity, and cost, each suitable for different purposes. Current trends like cloud storage make data accessible from anywhere and support remote work. New technologies (like NVMe SSDs) offer faster performance and better reliability.



QUIZ

Quiz Question 1:

Which of the following is an example of primary storage?

- A. Hard Disk Drive (HDD)
- B. USB Flash Drive
- C. Random Access Memory (RAM)
- D. DVD

Quiz Question 2:

Which type of storage is typically faster but more expensive per GB?

- A. HDD
- B. SSD
- C. CD/DVD
- D. USB Flash Drive Flash Drive