

TASK 2:

MEMORY OPERATION IN DEVICES LIKE LAPTOPS AND SMARTPHONES:

Memory type	Function	Real-life Example
RAM (Random Access Memory)	Temporary storage for active applications and processes.	Multitasking on your laptop without slowing down.
ROM (Read-Only Memory)	Stores the firmware/OS and boots up the device.	The BIOS in a laptop that initializes hardware during startup.
Flash Memory	Non-volatile memory for persistent storage of data.	Storing photos on your smartphone.
SSD (Solid State Drive)	Fast, non-volatile storage used in laptops for storing files and OS.	Like an efficient filing system that allows you to quickly retrieve files without waiting.
HDD (Hard Disk Drive)	Non-volatile storage with moving parts, used for bulk storage.	Storing large video files on a laptop.
Cache Memory	Speeds up data access from the main memory by keeping frequent data close to the CPU.	Like sticky notes on your monitor for quick reminders, so you don't have to search through your files again.