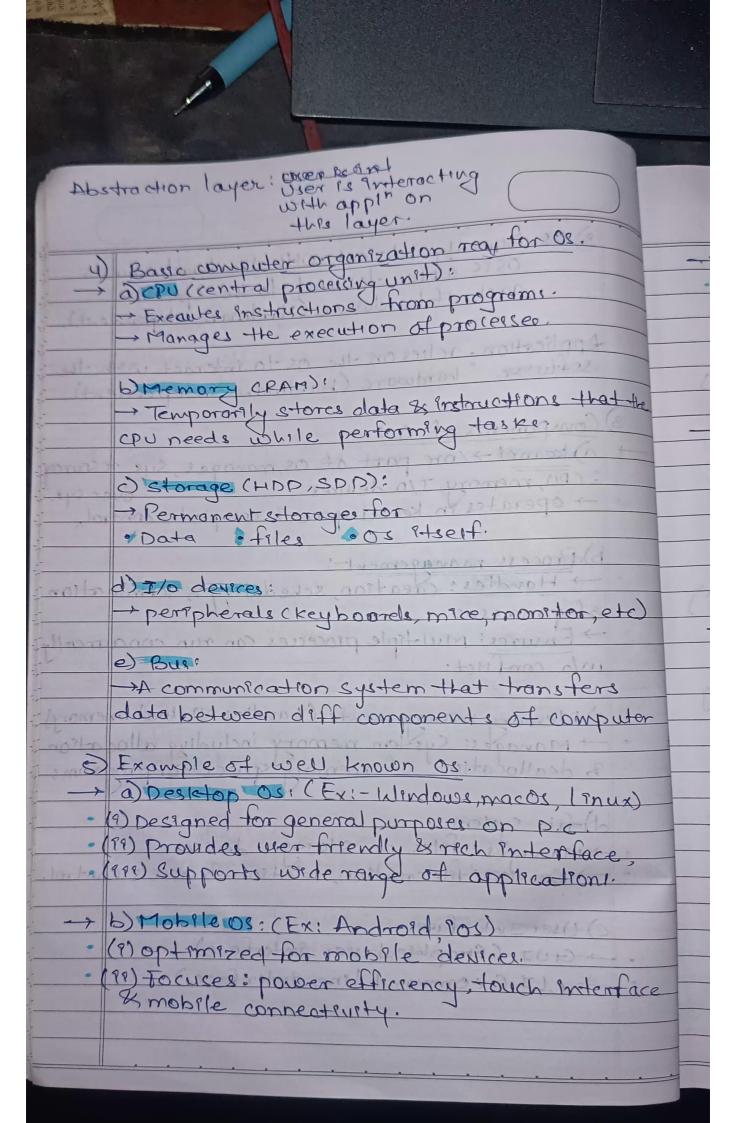
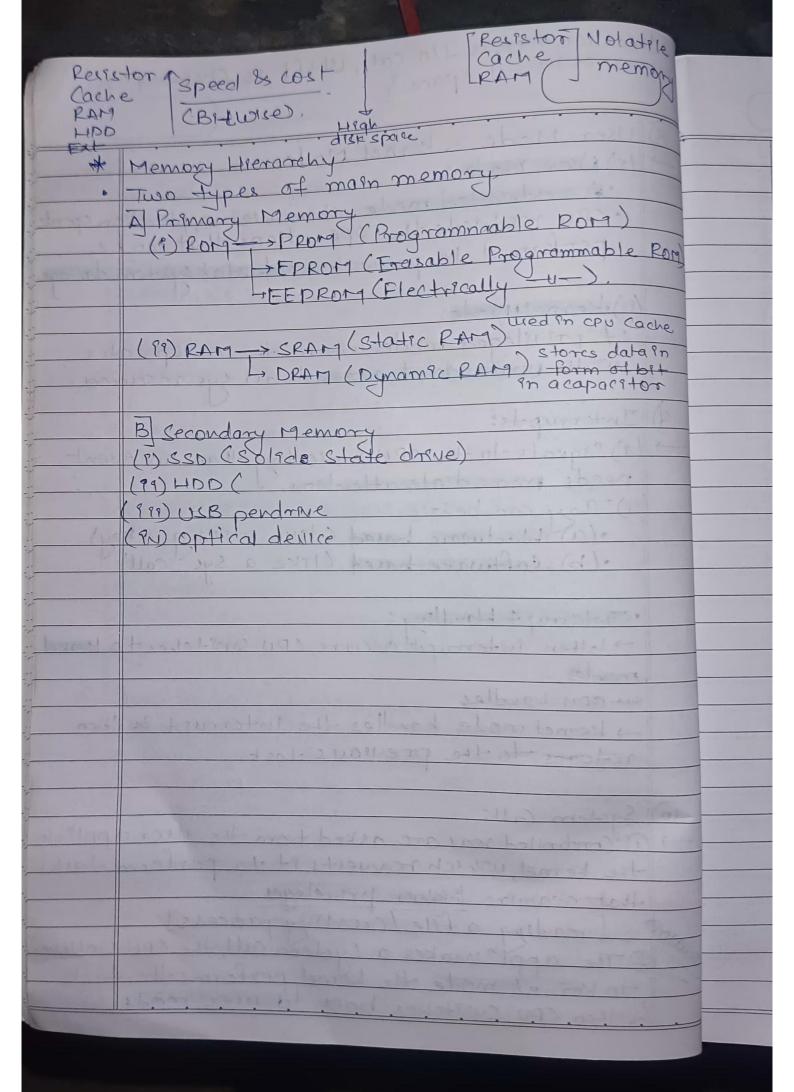
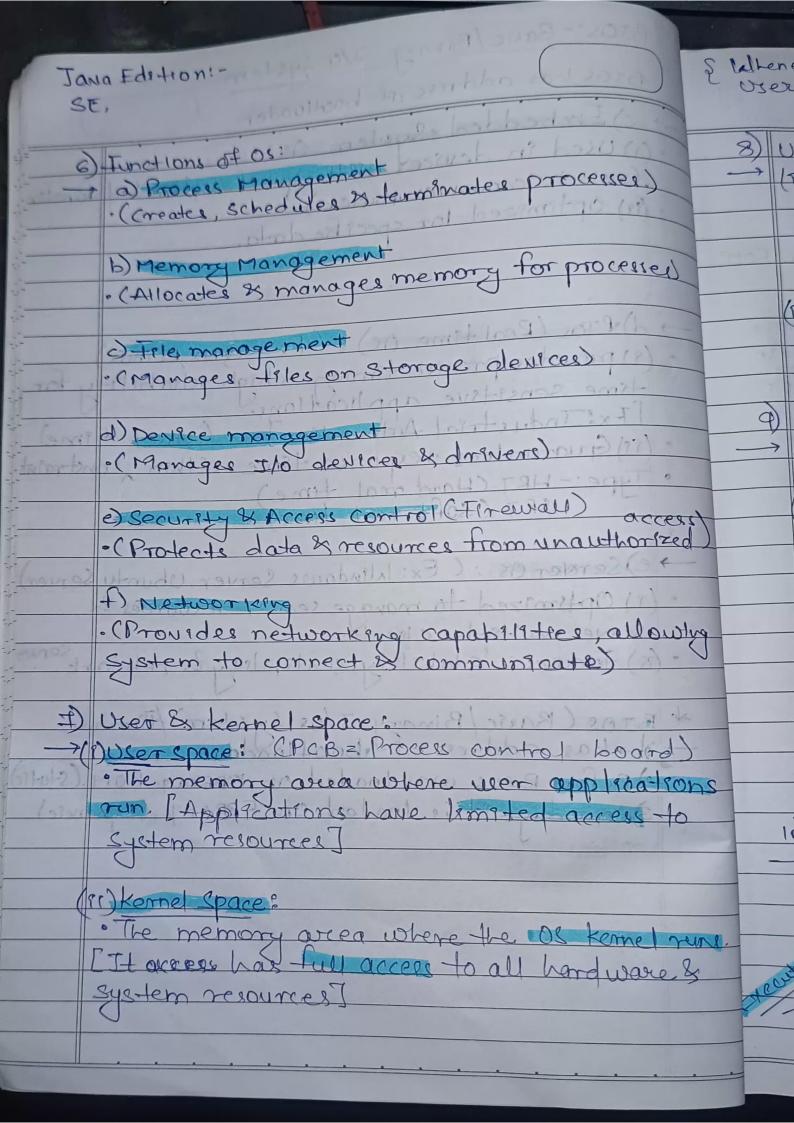
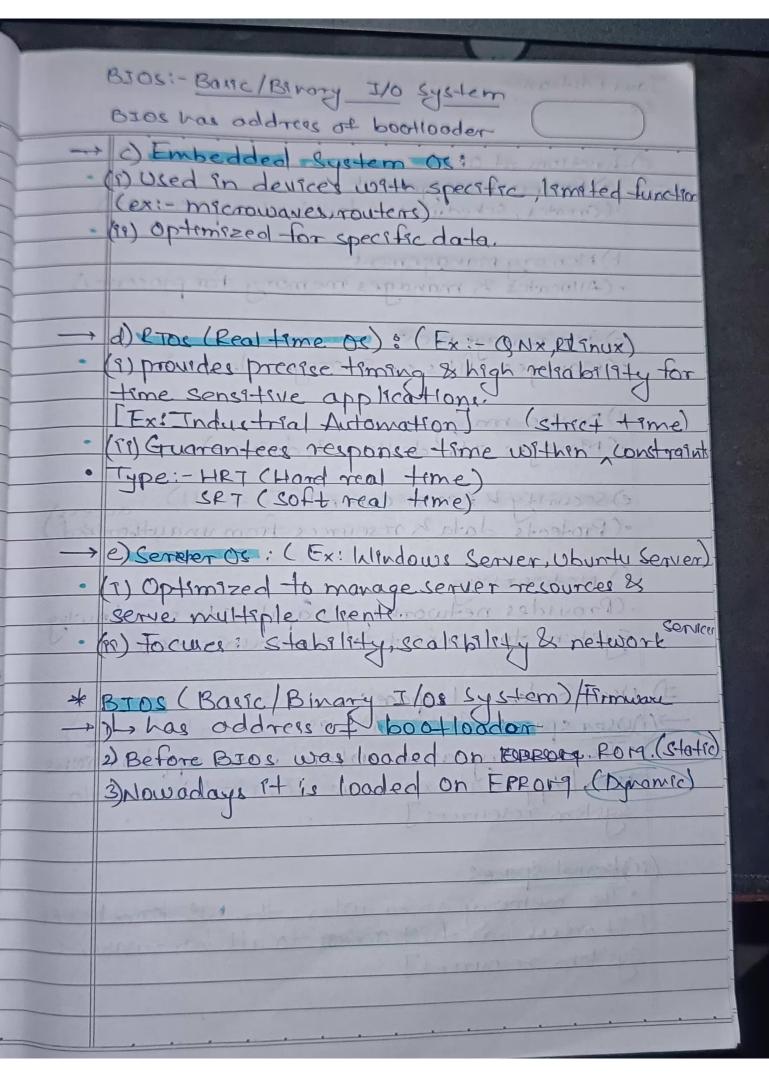
9:00 - 9:30 27/08/24 Morning Activity \* How to approach aptitude topsce? - + 40 avuection encett (maybe 60) · Each arrection (max 40 sec) Attempt au tre aprestions ? 3 way approach? [Go for familiar question to save time] 9:30 to 1:30 pm Malkeet Singh \* 1005 It manages all the hardware resources of the computer System. task or processes in a computer system It is barreally an interface between the merand the Scomputer System Chardware). 2) Diff between 05 X Appir software:-+ 1) Os manages hardware resources & provide a platform for application software to run. Application software is designed to specific Tacks. 2) as handlessystem level tasks 19ke, · process might · memory magnet · tile might Application tocules on wer centric tasks 19 Ke creating olocuments, etc





& Whenever these is I/O call, whilt is observed in User & Kernel space & 8) User Mode & Kernel Mode - (7) User Mode: · A restricted mode where wer application operate. CPU restricts the operations that can be performed to prevent acceptal system damage (PR) Kernel Mode: · A privileged mode where the or operates with unrestracted access to all sys resources 9) Interrupts: > (1) Signals to the CPU indicating than an event needs immediate attention. (PR) They can be:-· (a) Hardware based (19ke pressing a key) · (b) Coftware based (19ke a syx call) · Interrupt Hondling: > When Interrupt occurs, CPU SWP+ ches to kernel mode. w open landles -> kernel mode handles the Interrupt & then returns to the prenious lask. 10) System Call: D'Controlled real are asked from the wer appl" to the Kernel, which requests Pt to perform tasks that require higher priveleges Treading a file (creating process) The applymakes a system call, the CPU Swortches to kerned mode, the kornel performs the teck by then CPU switches back to user mode





e) os: Derectly interact with the hardware & osre often tailored to be specific arch of hardware (Hardware dependent) Application, relies on the or to interact with the software "hordware (Hardware Independent) 3) Components of os: \* a kernel -> core part of os, manages, sys resources : CPU, memory, I/o devices. over sys. -> operates on kernel space & complete control. b) Process management: Handles: creation, scheduling & termination -> Ensures: Multiple processes can run concurrently w/o confisct. communication system that transfer c) Memory managements Chardles 19 rtual memory -> Manages: System memory, including allocation & deallocation of memory spaces for programs d) file system samma large and hamber (a) -+ Manages: files on storage devices. Services: file creation, deletion & access control e) User Interface: - ... A 1x7): 8000 Hdo 16 - GUI (Graphical wer Interface) (100) - + CLI ( command Ine Interface) . utilitaganas sindom &