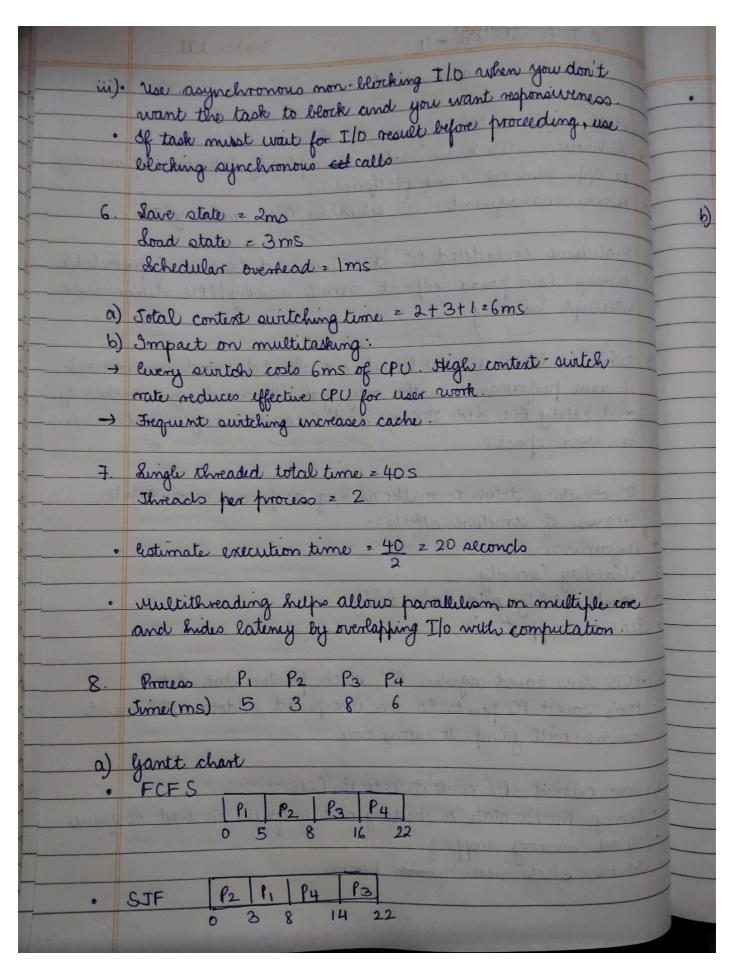
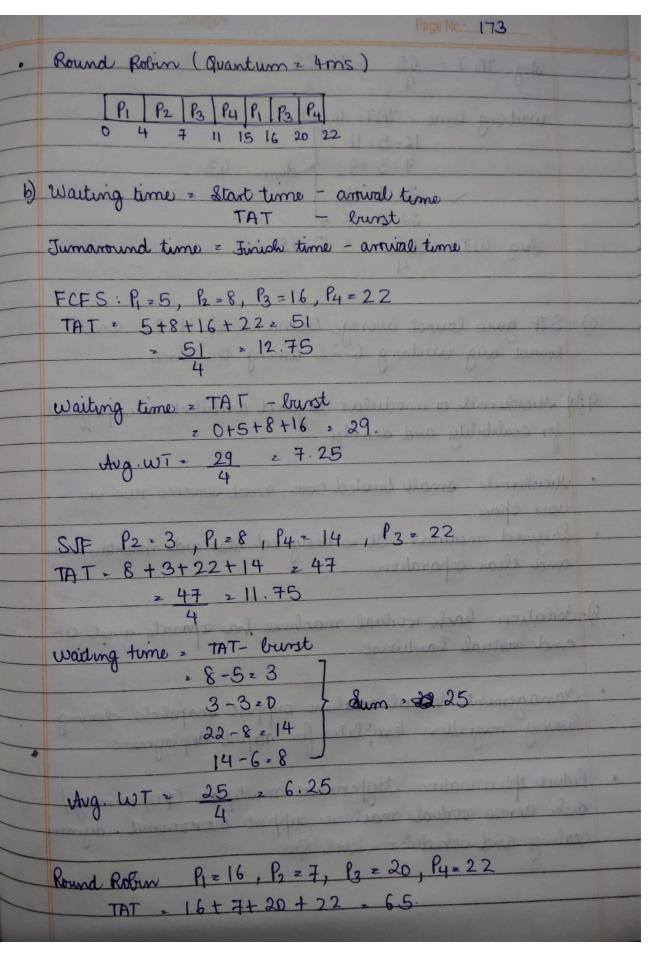
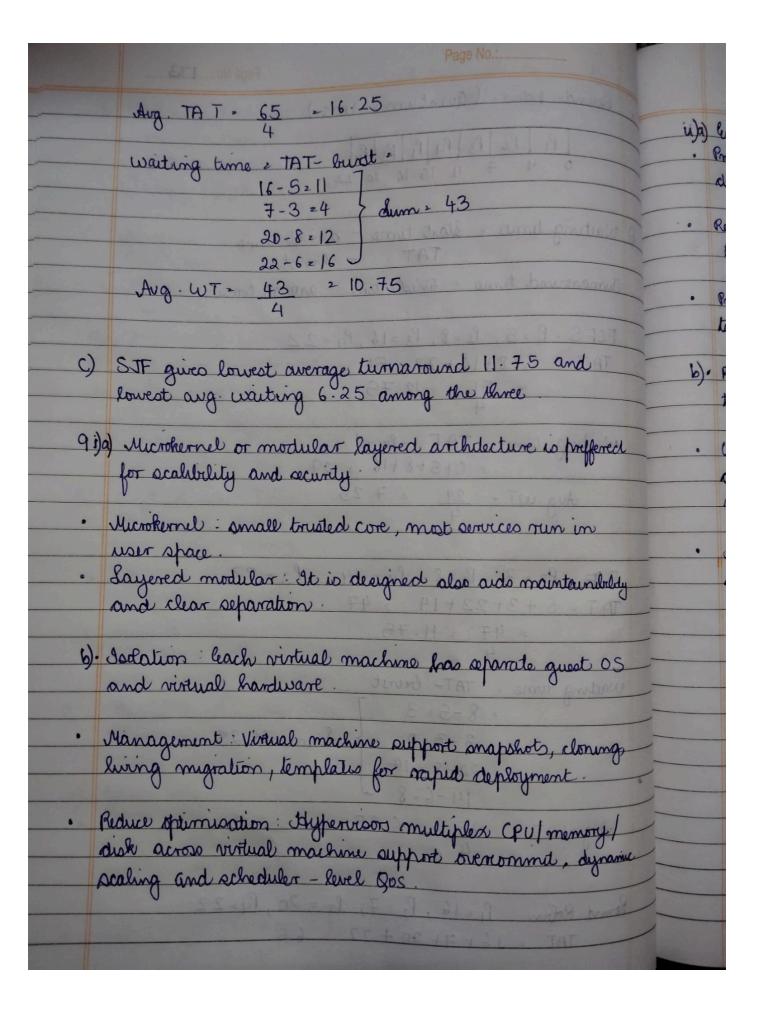
Viray Pardap Singh. 2301010231 BTech CSE 4 Assignment >1 Modern system still rely on OS borause. Abstraction: OS Rides Rardwore Complexity desice, CPU). so app sum on many potloom Resource Management: OS Schedule CPU, memory, Ilo 2 Real time embedded OS (RTOS) is used because of. predictable timing, low power gootbaint, small memory! CPU, ademostic intersuft handling 3 whele building a new Kernel we should avoid microkened of some tooks mance is the only good. Hicrorhound give. morey sorvices our in were space. OS structure doesn't matter as long as process dun because of stoucture affect: Performance Socierity Maintainability and extensibility · Feature Support 5) y.PCB stoses sowed register, PC, stackpointer, state bits · PCBIs sourced PC points to an unexpected address. The next Jesume will jump to wrong code Si). Save cursent CPU contexts into its PCB. change process state to waiting and enquences on want greve. appropriate memory mapping







- ist knowing high priority tasks are handled without delay.
 Priority-based scheduling sosign high priority to intrusion detection tasks.
- Real-time acheduling: Usbo Real time scheduler for critical tasks so deadlines are met.
- · Priority inheritance: Avoid priority inversion when lower-priority tasks.

 tasks hold resources needed by high-priority tasks.
- b). Rate Monotonic Scheduling (RMS): Good for periodic hard-real time tasks with fixed periods.
- · Carliest Deadline First (EDF): Optimal for dynamic deadlines and mixed workloads - better CPU utilization if tasks have different deadlines.
- · Hybrid approach: Use real-time scheduler (RMS) for eagety!
 aritical tasks.