OPERATING SYSTEM LAB

LAB 1 [SIMULATION OF FCFS AND SJF SCHEDULING ALGORITHM]

- Given the list of processes, their CPU burst time. WAP to simulate **FCFS** and **SJF** algorithm. The program should compute the average waiting time and average turnaround time for each of the scheduling algorithms.

LAB 2 [SIMULATION OF RR AND PRIORITY SCHEDULING ALGORITHM]

- Given the list of processes, their CPU burst time. WAP to simulate **RR** and **Priority** algorithm. The program should compute the average waiting time and average turnaround time for each of the scheduling algorithms.

LAB 3 [SIMULATION OF BANKER'S ALGORITHM]

- WAP to implement **Banker's algorithm** for avoiding deadlock.

LAB 4 [SIMULATION OF PAGE REPLACEMENT ALGORITHM]

- Given the list of referenced string and page frame. WAP to simulate **FIFO, LRU** and **CLOCK** replacement algorithm. The program should display the sequence and compute the total page fault.

LAB 5 [SIMULATION OF DISK SCHEDULING ALGORITHM]

- Given the list of disk cylinder and initial head position. WAP to simulate **FCFS** and **SSTF** disk scheduling algorithm. The program should display the sequence of head movement and compute the total head movement.