LIST OF EXPERIMENTS

Operating System

S.no	Lab Experiments	Date	Instructor Signature
1	Process System Calls • Overview of Kernel mode and User mode • Implementation of DOS-command (Internal and External).		
2	IO System Calls • Implementations of file Create, Open, Close, Read and write in Python.		
3	First Come First Serve Scheduling • Implementations of first co me first serve in Python. • Manipulate and find Waiting time, turnaround time, average wait time and average turnaround time.		
4	Shortest job first Scheduling • Implementation of Non-preemptive SJF in Python. • Implementation of preemptive SJF in Python.		
5	Priority Scheduling • Implementation of preemptive priority scheduling on different arrival time in Python. • Implementation of non-preemptive priority scheduling in Python.		
6	Round Robin Scheduling • Implementation of Round Robin scheduling in Python.		
7	Flags in Operating System • Implementation of flags and analyze output		
8	Producer-consumer problem Using semaphores • Implementation of Producer-consumer problem in Python.		
9	Memory Management • Implementation of First, Next, Best and Worst fit in Python		
10	File Manipulation • Implementation of file manipulation in Python.		
11	Simulate Page Replacement Algorithms FIFO, LRU and Optimal • Implementation of FIFO, LRU and optimal page replacement in Python.		
12	Banker Algorithm For Deadlock Prevention • Implementation of Banker algorithm in Python.		