Operating System Lab

a) Sequenced

b)

Objective :

To provide an understanding of the design aspects of operating system

Recommended Systems/Software Requirements:

• Intel based desktop PC with minimum of 166 MHZ or faster processor with atleast 64 MB RAM and 100 MB free disk space

Lab Experiments:

1. Simulate the following CPU scheduling algorithms a) Round Robin b) SJF c) FCFS d) Priority

2. Loading executable programs into memory and execute System Call implementation-read(), write(), open () and close()

3. Multiprogramming-Memory management- Implementation of Fork(), Wait(), Exec() and Exit() System calls

4. Simulate all File allocation strategies Indexedc) Linked

5. Simulate MVT and MFT

- 6. Simulate all File Organization Techniquesa) Single level directory b) Two level c) Hierarchical d) DAG
- 7. Simulate Bankers Algorithm for Dead Lock Avoidance
- 8. Simulate Bankers Algorithm for Dead Lock Prevention.
- 9. Simulate all page replacement algorithms.a) FIFOb) LRUc) LFUetc....
- 10. Simulate Paging Technique of memory management.