**List of Exercises for Model Lab Exams:**

1. Study of Basic Linux Commands

2. Shell Programming

3. System Calls Programming - I

4. System Calls Programming - II

5. System Calls Programming - III

~~6. System Calls Programming - IV~~

7. Simulation of Linux Commands

8. CPU Scheduling Algorithm - First Come First Served (FCFS)

9. CPU Scheduling Algorithm - Shortest Job First (SJF) - **Preemptive & Non Preemptive**

10. CPU Scheduling Algorithm - Priority - **Preemptive & Non Preemptive**

11. CPU Scheduling Algorithm - Round Robin (RR)

12. ~~Inter Process Communication (IPC) using Semaphores - Producer-Consumer Problem~~

~~13.  Implementation of Dining Philosopher's Problem using Semaphores~~

14. ~~Inter Process Communication (IPC) using Pipes~~

15.  Inter Process Communication (IPC) using Shared Memory - Client-Server Communication

16. Threading and Synchronization Applications: Readers-Writers Problem

~~17. Banker's Algorithm for Deadlock Avoidance~~

18. Dynamic Memory Allocation         a) First-Fit             b) Best-Fit         c) Worst-Fit

19. Paging Hardware Implementation  
  
20. File Allocation Strategies   a) Sequential   b) Linked  c) Indexed