**Operating System Lab**

**List of Exercises**

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| **S.No.** | **Title of Exercise** | **Refer Assignment** |
| 1 | Study of Unix/Linux commands | 1 |
| 2 | Shell Scripting  a. word search  b. retrieve all c files in the present working directory and compile them  c. backup files in a specified directory  d. change file permissions of a file | 2 |
| 3 | Implementing CPU Scheduling Algorithms  a. FIFO  b. SJF  c. SRTF  d. Round Robin  e. Priority | 3, 4, 5 |
| 4 | Process creation using fork | 4 |
| 5 | inter-process communication using pipe system call  a. Implementing ls | sort command | 5 |
| 6 | Implementing Deadlock detection and avoidance algorithms | 6 |
| 7 | Dining- Philosopher problem using Semaphores | 7 |
| 8 | Implementing Page replacement algorithms  a. LRU  b. FIFO | 8 |
| 9 | Implement cp command using system call | 9 |
| 10 | Creating named pipe between two processes | 10 |