CSL204 OPERATING SYSTEMS LAB

1. Basic Linux commands
2. Shell programming
   -Command syntax
   -Write simple functions with basic tests, loops, patterns
   a)Odd or Even
   b)Greatest of three numbers
   c)Leap year
   d)Print inverted pyramid
   e)Fibonacci series
   f)Calculator
3. System calls of Linux operating system:*--fork, exec, getpid, exit, wait, close, stat, opendir, readdir
4. Implement programs for Inter Process Communication using Shared Memory *
5. Write a C program to simulate producer-consumer problem using semaphores.*
6. Write a C program to simulate following non-preemptive CPU scheduling algorithms to find turnaround time and waiting time.
   a) Round Robin b) SJF c) FCFS d)Priority *
7. Given the list of processes, their CPU burst times and arrival times, display/print the
   Gantt chart for FCFS and SJF. For each of the scheduling policies, compute and print the
   average waiting time and average turnaround time
8. Write a C program to simulate following contiguous memory allocation techniques*
   a) First Fit b) Worst Fit c) Best Fit
9. Implement page replacement algorithms
   a) FIFO b) LRU c) LFU*
10. Implement the banker's algorithm for deadlock avoidance. *
11. Simulate disk scheduling algorithms. *
   c) FCFS b)SCAN c) C-SCAN