1. a) Write a C program to simulate the FCFS CPU Scheduling algorithm

b) Write programs using the I/O system calls of UNIX/LINUX operating system-read, lseek

2. a) Write a C program to simulate the SJF CPU Scheduling algorithm

b) Write programs using the I/O system calls of UNIX/LINUX operating system-write, lseek

3. a) Write a C program to simulate the Round Robin CPU Scheduling algorithm

b)Write programs using the I/O system calls of UNIX/LINUX operating system - opendir, readdir

4. a) Write a C program to simulate the Priority CPU Scheduling algorithm

b) Write programs using the I/O system calls of UNIX/LINUX operating system - open, close, lseek

5. a) Write a C program to simulate the paging memory management technique.

b) Write programs using the I/O system calls of UNIX/LINUX operating system - open, read, and close

6.a) Write a C program to simulate the Segmentation memory management technique.

b) Write programs using the I/O system calls of UNIX/LINUX operating system, open, write, close

7. Write a C program to simulate Bankers Algorithm for Deadlock Avoidance and Prevention.

8. a) Write programs using the I/O system calls of UNIX/LINUX operating system- open, read, and close

b) Write a C program to simulate the Priority CPU Scheduling algorithm

9. a) Write programs using the I/O system calls of UNIX/LINUX operating system- open, write, close

b) Write a C program to simulate the Round Robin CPU Scheduling algorithm

10. a) Write programs using the I/O system calls of UNIX/LINUX operating system- open, close, lseek

b) Write a C program to simulate the SJF CPU Scheduling algorithm

11. a) Write programs using the I/O system calls of UNIX/LINUX operating system- opendir, readdir

b) Write a C program to simulate the FCFS CPU Scheduling algorithm

12. a) Write programs using the I/O system calls of UNIX/LINUX operating system - write, lseek

b) Write a C program to simulate the paging memory management technique.

13. a) Write programs using the I/O system calls of UNIX/LINUX operating system- read, lseek

b) Write a C program to simulate the Segmentation memory management technique.

14. a) Write a C program to implement the Producer – Consumer problem using semaphores using UNIX/LINUX system calls.

b) Write programs using the I/O system calls of UNIX/LINUX operating system - open and close.