## H M Mythreya PES2UG20CS130 OS Lab Week-3

1) Program to demonstrate fcfs.

```
-(kali⊛kali)-[~/.../OS_LAB/OS/LAB/Week 3]
Enter the number of processes to schedule:5
Enter the Process Name, Arrival Time and Burst Time of the processes:p1 5 5
Enter the Process Name, Arrival Time and Burst Time of the processes:p2 5 3
Enter the Process Name, Arrival Time and Burst Time of the processes:p3 7 2
Enter the Process Name, Arrival Time and Burst Time of the processes:p4 9 12
Enter the Process Name, Arrival Time and Burst Time of the processes:p5 10 20
ProcessName
                         ArrivalTime
                                                   BurstTime
                                                                            WaitTime
                                                                                                     Start TurnAroundTime Finish
                                                                               0
p2
p1
                                                                                                        8
                                                                                                                         8
                                                                                                                                                  13
р3
                                                                                                       13
                                                                                                                                                  15
p4
                                                    12
                                                                                                                        18
                                                                                                                                                  27
 Average Waiting time:6.400000
Average Turn Around Time: 14.800000
```

2) Program to demonstrate priority scheduling.

```
kali@ kali) - [~/.../OS_LAB/OS/LAB/Week 3]
  s gcc priority.c
    ·(kali⊛kali)-[~/…/OS_LAB/OS/LAB/Week 3]
Enter the number of process:5
Enter process name,arrivaltime,execution time & priority:p1 5 10 3
Enter process name,arrivaltime,execution time & priority:p2 5 5 2
Enter process name,arrivaltime,execution time & priority:p3 5 5 1
Enter process name,arrivaltime,execution time & priority:p4 10 10 5
Enter process name, arrivaltime, execution time & priority:p5 10 20 4
                     arrival time
                                          execution time priority
                                                                                    waiting time
                                                                                                        turn around time
рЗ
                          5
5
                                               5
5
p2
                                                                                        5
                                                                                                             10
р1
                          5
                                              10
                                                                    3
                                                                                       10
                                                                                                            20
p5
                         10
                                                                                        15
                                                                                                             35
                                              20
                                                                                        35
                         10
                                              10
.
Average waiting time is:13.000000
Average turnaroundtime is:23.000000
```

3) Program to demonstrate round robin scheduling.

```
kali®kali) - [~/…/OS_LAB/OS/LAB/Week 3]
Enter the total number of process to schedule: 5
 Enter the Arrival and Burst time of the Process[1]: 507
 Enter the Arrival and Burst time of the Process[2]: 5 12
 Enter the Arrival and Burst time of the Process[3]: 8 9
 Enter the Arrival and Burst time of the Process[4]: 10 3
 Enter the Arrival and Burst time of the Process[5]: 5 5
Enter the Time Quantum for the process: 10
                                                   TAT
Process No
                         Burst Time
                                                                   Waiting Time
Process No[1]
                                                                            -5
                                                   2
Process No[3]
Process No[4]
                         9
                                                  18
                                                                            9
                                                  19
                                                                            16
                         3
Process No[5]
                         5
                                                   29
                                                                            24
Process No[2]
                         12
                                                   31
                                                                            19
Average Turn Around Time: 19.799999
Average Waiting Time: 12.600000
```

4) Program to demonstrate sjf.

```
—(kali⊛kali)-[~/…/OS_LAB/OS/LAB/Week 3]
—$ gcc <u>sjf.c</u>
  —(kali⊛kali)-[~/…/OS_LAB/OS/LAB/Week 3]
Enter the number of processes to schedule:5
Enter the process name, arrival time and execution time of each process:p1 5 5 Enter the process name, arrival time and execution time of each process:p2 5 3 Enter the process name, arrival time and execution time of each process:p3 7 2 Enter the process name, arrival time and execution time of each process:p4 9 12
Enter the process name, arrival time and execution time of each process:p5 10 20
TurnAroundTime
p2
                                                                                     12
р4
                                                               8
                                                                                     20
               10
                                       20
                                                              19
Average waiting time is: 7.600000
Average turnaround time is: 16.000000
```

## 5) Program to demonstrate srtf.

```
(kali⊕ kali) - [~/.../OS LAB/OS/LAB/Week 3]
Enter the number of processes to schedule:
Enter the process name, arrival time and burst time for each process:
p1 5 5
Enter the process name, arrival time and burst time for each process:
p2 5 3
Enter the process name, arrival time and burst time for each process:
Enter the process name, arrival time and burst time for each process:
p4 9 12
Enter the process name, arrival time and burst time for each process:
p5 10 20
Process burst-time
                      arrival-time waiting-time turnaround-time completion-time
                                       5
p1
                                                         10
                                                                             15
                             5
                                             0
                                                                             8
p2
                                                                             10
рЗ
             12
                             9
                                                            18
                                             6
                                                                             27
p4
p5
               20
                              10
                                            17
                                                             37
                                                                             47
Average waiting time = 5.800000
Average Turnaround time = 14.200000
```