DEPARTMENT OF INFORMATION TECHNOLOGY

IT 253 Operating Systems Lab

LAB5:   21/03/2023

Evaluation: 20 Marks

Objective

To understand the CPU scheduling algorithm.

Implementation can be any platform any language.

CPU Scheduling

Write a menu driven program to compute start time the process, finish time of the process, average waiting time and turnaround time of following CPU scheduling algorithm. Show the Gantt Chart of the process schedulin.

1. First Come First Serve (FCFS)

2. Shortest Job First (SJF)

3. Shortest remaining Job First (SRTF)

4. Round Robin (RR)

5. Priority non preemptive

6. Priority Prepemptive.

For each of these case Consider following conditions for input. That is consider at least 3 jobs with larger burst time, 3 jobs with shorter time and 3 jobs with medium time required for execution.

a) The job which needs longer time comes first.

b) The job which requires shorter time comes first.

c) The job which needs medium execution time comes first.

Plot the graph and analyze the result.