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SE-Comps B/Batch C

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OS Experiment 5: Scheduling

(All source code files are submitted on moodle)

Problem statement: Write a program to simulate the following Non-preemptive CPU scheduling algorithms to find turnaround time and waiting time. a) FCFS b) SJF c) Round Robin d) Priority

Files used: Exp5.c

Output:

1. FCFS

2. SJF

3. Priority Scheduling

```
Command Prompt
C:\Users\shubh\OneDrive - Bharatiya Vidya Bhavans Sardar Patel Institute Of Technology\OS>.\ex5
Enter the number of processes: 5
Enter the burst time for process 1: 84
Enter the burst time for process 2: 50
Enter the burst time for process 3: 43
Enter the burst time for process 4: 78
Enter the burst time for process 5: 92
Enter 1 for FCFS, 2 for SJF, 3 for Priority, 4 for Round Robin: 3
Enter the priority for process 1: 5
Enter the priority for process 2: 3
Enter the priority for process 3: 1
Enter the priority for process 4: 2
Enter the priority for process 5: 4
                                            Waiting Time
                                                              Turn Around Time
Process priority
                           84
                                                              347
Average waiting time: 119.60
Average turn around time: 189.00
C:\Users\shubh\OneDrive - Bharatiya Vidya Bhavans Sardar Patel Institute Of Technology\OS>
```

4. Round Robin scheduling

```
C:\Users\shubh\OneDrive - Bharatiya Vidya Bhavans Sardar Patel Institute Of Technology\OS>.\ex5
Enter the number of processes: 5
Enter the burst time for process 1: 84
Enter the burst time for process 3: 43
Enter the burst time for process 3: 43
Enter the burst time for process 5: 92
Enter 1 for FCFS, 2 for SJF, 3 for Priority, 4 for Round Robin: 4
Enter the quantum: 25
Process Burst Time Waiting Time Turn Around Time

1 84 243 327
2 50 125 175
3 43 150 193
4 78 252 330
5 92 255 347
Average waiting time: 205.00
Average turn around time: 274.40

C:\Users\shubh\OneDrive - Bharatiya Vidya Bhavans Sardar Patel Institute Of Technology\OS>
```