

Activity Process and Task Management

FCFS Scheduling

Directions: Analyze and complete the table below. Then provide a short explanation of your work.

| Task | Arrival Time | Duration | Waiting time |
|------|--------------|----------|--------------|
| 1 | 8:00 AM | 19 mins | |
| 2 | 8:10 AM | 3 mins | |
| 3 | 8:17 AM | 9 mins | |
| 4 | 8:35 AM | 17 mins | |
| 5 | 8:40 AM | 8 mins | |
| 6 | 8:46 AM | 3 mins | |
| 7 | 8:51 AM | 27 mins | |
| 8 | 9:00 AM | 29 mins | |
| 9 | 9:09 AM | 5 mins | |
| 10 | 9:30 AM | 19 mins | |

SJN Scheduling

Directions: Arrange the data in the table below based on SJN scheduling. Also provide the waiting time for each task. Then provide a short explanation of your work.

| Task | Arrival Time | Duration | Waiting time |
|------|--------------|----------|--------------|
| 6 | 6:09 AM | 55 mins | |
| 7 | 6:10 AM | 20 mins | |
| 8 | 6:26 AM | 11 mins | |
| 5 | 6:28 AM | 18 mins | |
| 2 | 6:29 AM | 41 mins | |
| 9 | 6:33 AM | 16 mins | |
| 1 | 6:34 AM | 46 mins | |
| 3 | 6:38 AM | 40 mins | |
| 10 | 6:42 AM | 23 mins | |
| 4 | 6:45 AM | 58 mins | |

RR Scheduling

Directions: Analyze the table below then simulate the RR scheduling with time quantum 4 mins. If task has been completed, write "completed" in column remaining minutes. Then provide a short explanation of your work.

| Task | Duration | Remaining Minutes |
|------|----------|-------------------|
| 1 | 24 | |
| 2 | 10 | |
| 3 | 16 | |
| 4 | 9 | |
| 5 | 13 | |
| 6 | 25 | |
| 7 | 1 | |
| 8 | 29 | |
| 9 | 15 | |
| 10 | 17 | |

Priority Scheduling

Directions: Arrange the data in the table below based on Priority scheduling. Also provide the waiting time for each task. Then provide a short explanation of your work.

| Task | Priority | Duration(mins) | Waiting time(mins) |
|------|----------|----------------|--------------------|
| 6 | 9 | 9 | |
| 5 | 3 | 1 | |
| 10 | 5 | 23 | |
| 1 | 8 | 25 | |
| 3 | 7 | 8 | |
| 9 | 1 | 30 | |
| 7 | 6 | 24 | |
| 8 | 4 | 10 | |
| 2 | 2 | 16 | |
| 4 | 10 | 28 | |