

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             |                    |