

- Apply **First Come First Serve (FCFS)** scheduling algorithm –

| Process ID | Arrival Time | Burst Time |
|------------|--------------|------------|
| P1 | 0 | 1 |
| P2 | 3 | 9 |
| P3 | 9 | 10 |
| P4 | 2 | 1 |
| P5 | 2 | 7 |

Average Turnaround Time: 9.2

Average Waiting Time: 3.6

- Apply non-preemptive **Shortest Job First (SJF)** scheduling algorithm –

| Process ID | Arrival Time | Burst Time |
|------------|--------------|------------|
| P1 | 0 | 6 |
| P2 | 4 | 5 |
| P3 | 5 | 7 |
| P4 | 2 | 4 |
| P5 | 3 | 6 |

Average Turnaround Time: 13.2

Average Waiting Time: 7.6

- Apply non-preemptive **Shortest Job First (SJF)** scheduling algorithm –

| Process ID | Arrival Time | Burst Time |
|------------|--------------|------------|
| P1 | 0 | 9 |
| P2 | 2 | 5 |
| P3 | 2 | 10 |
| P4 | 1 | 10 |
| P5 | 3 | 2 |

Average Turnaround Time: 18

Average Waiting Time: 10.8

- Apply preemptive **Shortest Remaining Time First (SRTF)** scheduling algorithm –

| Process ID | Arrival Time | Burst Time |
|------------|--------------|------------|
| P1 | 0 | 3 |
| P2 | 4 | 8 |
| P3 | 3 | 8 |
| P4 | 3 | 10 |
| P5 | 7 | 8 |

Average Turnaround Time: 16

Average Waiting Time: 8.6

- Apply preemptive **Shortest Remaining Time First (SRTF)** scheduling algorithm –

| Process ID | Arrival Time | Burst Time |
|------------|--------------|------------|
| P1 | 0 | 5 |
| P2 | 1 | 3 |
| P3 | 1 | 6 |
| P4 | 5 | 11 |
| P5 | 5 | 1 |

Average Turnaround Time: 9.6

Average Waiting Time: 4.4

- Apply non-preemptive **Priority** scheduling algorithm –

| Process ID | Arrival Time | Burst Time | Priority |
|------------|--------------|------------|----------|
| P1 | 0 | 5 | 2 |
| P2 | 2 | 4 | 4 |
| P3 | 2 | 11 | 1 |
| P4 | 1 | 6 | 3 |
| P5 | 5 | 9 | 5 |

Average Turnaround Time: 18.8

Average Waiting Time: 11.8

- Apply preemptive **Priority** scheduling algorithm –

| Process ID | Arrival Time | Burst Time | Priority |
|------------|--------------|------------|----------|
| P1 | 0 | 9 | 4 |
| P2 | 4 | 4 | 2 |
| P3 | 8 | 5 | 1 |
| P4 | 5 | 8 | 5 |
| P5 | 1 | 8 | 3 |

Average Turnaround Time: 16.2

Average Waiting Time: 9.4

- Apply preemptive **Priority** scheduling algorithm –

| Process ID | Arrival Time | Burst Time | Priority |
|------------|--------------|------------|----------|
| P1 | 0 | 1 | 3 |
| P2 | 4 | 3 | 4 |
| P3 | 5 | 5 | 5 |
| P4 | 3 | 9 | 1 |
| P5 | 1 | 1 | 2 |

Average Turnaround Time: 7.4

Average Waiting Time: 3.6

- Apply **Round Robin** scheduling algorithm, where $q = 5$ –

| Process ID | Arrival Time | Burst Time |
|------------|--------------|------------|
| P1 | 0 | 3 |
| P2 | 3 | 2 |
| P3 | 7 | 7 |
| P4 | 2 | 2 |
| P5 | 5 | 3 |

Average Turnaround Time: 5

Average Waiting Time: 1.6

- Apply **Round Robin** scheduling algorithm, where $q = 4$ –

| Process ID | Arrival Time | Burst Time |
|------------|--------------|------------|
| P1 | 0 | 8 |
| P2 | 3 | 11 |
| P3 | 2 | 7 |
| P4 | 2 | 10 |
| P5 | 6 | 5 |

Average Turnaround Time: 29.8

Average Waiting Time: 21.6

- Apply **Round Robin** scheduling algorithm, where $q = 3$ –

| Process ID | Arrival Time | Burst Time |
|------------|--------------|------------|
| P1 | 0 | 4 |
| P2 | 4 | 8 |
| P3 | 1 | 5 |
| P4 | 1 | 2 |
| P5 | 4 | 5 |

Average Turnaround Time: 14

Average Waiting Time: 9.2