* 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:** 188

**Average Waiting Time:** 10.810.8

* 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