Assignment

1- Consider 5 processes arriving at different times. Each process has a different burst time. Calculate average waiting time using FCFS scheduling algorithm.

Process	Burst Time	Arrival Time
P1	6	2
P2	2	5
P3	8	1
P4	3	0
P5	4	4

2- Consider the following processes each having its own burst time & arrival time. Calculate average waiting time using non preemptive SJF algorithm.

Process	Burst Time	Arrival Time
P1	6	2
P2	2	5
P3	8	1
P4	3	0
P5	4	4

3- Consider the following processes each having its own burst time & arrival time. Calculate average waiting time using SRTF/ preemptive SJF scheduling algorithm.

Process	Burst Time	Arrival Time
P1	6	1
P2	8	1
P3	7	2
P4	3	3

4- Consider the following processes each having its own burst time & arrival time. Calculate average waiting time using SRTF/ preemptive SJF scheduling algorithm.

Process	Burst Time	Arrival Time
P1	6	2
P2	2	5
P3	8	1
P4	3	0
P5	4	4

5- Consider the following processes each having its own burst time & arrival time. Calculate average waiting time by using round robin scheduling algorithm.

Process	Burst Time	Arrival Time
P1	10	0
P2	5	0
P3	8	0

6- Consider the following processes each having its own burst time & arrival time. Calculate average waiting time by using round robin scheduling algorithm.

Process	Burst Time	Arrival Time
P1	4	0
P2	3	1
P3	5	4

7- Consider following three processes P1 to P4. Each process has its unique priority, burst time, and arrival time.
Calculate average waiting time using
Preemptive priority scheduling algorithm.

Process	Priority	Burst Time	Arrival Time
P1	1	5	0
P2	3	3	1
P3	2	8	2

8- Consider following four processes P1 to P4. Each process has its unique priority, burst time, and arrival time.
Calculate average waiting time using
Preemptive priority scheduling algorithm.

Process	Priority	Burst Time	Arrival Time
P1	10	4	0
P2	20	3	0
P3	10	7	6
P4	30	4	9

9- Consider the following processes each having its own total burst time, I/O & CPU bursts. Which scheduling algorithm is used while solving this problem? Calculate average waiting time.

Process	Total Burst Time	I/O Burst	CPU Burst	I/O Burst
P1	10	2	7	1
P2	20	4	14	2
P3	30	6	21	3

10- Consider the following chart and analyse which queue will execute first and why?

Process	Arrival Time	Burst Time	Queue
P1	0	5	1
P2	0	3	2
P3	0	8	2
P4	0	6	1