EXERCISE-1

Qeustion 1. For the process listed in table draw the chart illustrating their execution time using

- A. First-Come- First –Served.
- B. Shortest Job First(SJF Non Preempted)

Table 1: Process Scheduling Data

Process	Arrival Time	Burst Time/ Processing Time
А	0.000	3
В	1.001	6
С	4.001	4
D	6.001	2

<u>Solution</u>

A. First-Come-First –Served.

1	10		- B	1	1	10	1		1	1
			13							

B. Shortest Job First(SJF Non Preempted)

1	1	10	1	1	10	1	1	1	1	1		1	1
		12			12								
1	1	10	1		10	1	-	10			8	1	

Qeustion 2. For the process listed in Table 1, calculate the turnaround time of each process and also calculates average turnaround time using.

- A. First-Come- First –Served.
- B. Shortest Job First(SJF Non Preempted)
- C. Shortest Remaining Time First(SJF Preempted)
- D. Round Robin (Quantum =2)
- E. Round Robin (Quantum =1)

(Hint: Turnaround time is computed by subtracting the time the process entered in the system from the time it terminated)

<u>Solution</u>

A.	First-Come-	First	-Served.

Tat (A)	=	()	-	()	=	()
Tat (B)	=	()	-	()	=	()
Tat (C)	=	()	-	()	=	()
Tat (D)	=	()	-	()	=	()

B. Shortest Job First(SJF Non Preempted)

Tat (A)	=	()	-	()	=	()
Tat (B)	=	()	-	()	=	()
Tat (C)	=	()	-	()	=	()
Tat (D)	=	()	-	()	=	()

Qeustion 3. For the process listed in Table 1, calculate the waiting time of each process and also calculates average waiting time using.

- A. First-Come- First –Served.
- B. Shortest Job First(SJF Non Preempted)
- C. Shortest Remaining Time First(SJF Preempted)
- D. Round Robin (Quantum =2)
- E. Round Robin (Quantum =1)

(Hint: Waiting time is computed by subtracting the Processing time(Burst Time)from its Turnaround time)

Solution

A.	First-Cor	ne- Fir	rst –Served.							
	W (A)	=	()	_	()	=	()
	W (B)	=	()	_	()	=	()
	W (C)	=	()	-	()	=	()
	W (D)	=	()	_	()	=	()

B. Shortest Job First(SJF Non Preempted)

W (A)	=	()	-	()	=	()
W (B)	=	()	-	()	=	()
W (C)	=	()	_	()	=	()
W (D)	=	()	-	()	=	()

	Process	Arrival Time	Burst Time/ Processing Time	Execution Time	Turnaroun d Time	Waiting Time	Average Turnaround Time	Average waiting Time
	Α	0.000	3					
FCFS	В	1.001	6					
rers	С	4.001	4					
	D	6.001	2					
	Α	0.000	3					
SJF	В	1.001	6					
(NP)	С	4.001	4					
	D	6.001	2					