Ques 1.a

Enter Enter	the numbe arrival t burst tin priority	time of property	process :	l: 0 3		
Enter	arrival t burst tim priority	ne of pr	ocess 2:	7		
Enter	arrival t burst tin priority	ne of pr	ocess 3:	2		
Enter	arrival t burst tin priority	ne of pr	ocess 4:	4		
Enter	arrival t burst tin priority	ne of pr	ocess 5:	9		
Enter	arrival t burst tin priority	ne of pr	ocess 6:	1		
#P	AT	BT	PRI	CT	TAT	WT
1	0	3	6	12	12	9
2	0	7	5	19	19	12
3	0	2	2	26	26	24
4	0	4	3	24	24	20

Average Turnaround Time = 18.33 Average Waiting Time = 14.00

0 9 7

0 1 4 20

9

9

20

19

5

```
D:\SEMESTER 5\Operating Systems\Lab-3>cd "d:\SEMESTER 5\Operating System
Enter the number of processes: 6
Enter arrival time of process 1: 1
Enter burst time of process 1: 3
Enter priority of the process 1: 3
Enter arrival time of process 2: 2
Enter burst time of process 2: 4
Enter priority of the process 2: 2
Enter arrival time of process 3: 2
Enter burst time of process 3: 5
Enter priority of the process 3: 1
Enter arrival time of process 4: 3
Enter burst time of process 4: 6
Enter priority of the process 4: 5
Enter arrival time of process 5: 3
Enter burst time of process 5: 4
Enter priority of the process 5: 6
Enter arrival time of process 6: 4
Enter burst time of process 6: 3
Enter priority of the process 6: 5
#P
       ΑT
              BT
                       PRI
                                CT
                                        TAT
                                                WT
        1
                3
                        3
                                17
1
                                        16
                                                13
        2
2
                4
                        2
                                21
                                        19
                                                15
3
        2
                5
                        1
                                26
                                        24
                                                19
4
        3
                6
                        5
                                13
                                        10
                                                4
5
        3
                        6
                                7
                                        4
                                                0
```

Average Turnaround Time = 14.17 Average Waiting Time = 10.00

3

5

16

12

9

4

6

Ques 2.a

D:\SEMESTER 5\Operating Systems\Lab-3>cd "d:\SEMESTER 5\Operating Systems _Lab3_Ques2.a

Enter the number of processes: 6

Enter time quantum: 3

Enter arrival time of process 1: 0 Enter burst time of process 1: 3

Enter arrival time of process 2: 0 Enter burst time of process 2: 6

Enter arrival time of process 3: 0 Enter burst time of process 3: 12

Enter arrival time of process 4: 0 Enter burst time of process 4: 4

Enter arrival time of process 5: 0 Enter burst time of process 5: 1

Enter arrival time of process 6: 0 Enter burst time of process 6: 5

Pid	AT	BT	CT	TAT	WT
1	0	3	3	3	0
2	0	6	19	19	13
3	0	12	31	31	19
4	0	4	23	23	19
5	0	1	13	13	12
6	0	5	25	25	20

Average Turnaround Time = 19.00 Average Waiting Time = 13.83

Ques 2.b

D:\SEMESTER 5\Operating Systems\Lab-3>cd "d:\SEMESTER 5\Operating Systems\Lab-3\" && g++ C ED19I056_Lab3_Ques2.b.cpp -o CED19I056_Lab3_Ques2.b && "d:\SEMESTER 5\Operating Systems\La b-3\"CED19I056_Lab3_Ques2.b Enter the number of processes: 6 Enter time quantum: 2 Enter arrival time of process 1: 0 Enter burst time of process 1: 4 Enter arrival time of process 2: 1 Enter burst time of process 2: 5 Enter arrival time of process 3: 2 Enter burst time of process 3: 2 Enter arrival time of process 4: 3 Enter burst time of process 4: 1 Enter arrival time of process 5: 4 Enter burst time of process 5: 6 Enter arrival time of process 6: 6 Enter burst time of process 6: 3

Pid	AT	BT	CT	TAT	WT
1	0	4	8	8	4
2	1	5	18	17	12
3	2	2	6	4	2
4	3	1	9	6	5
5	4	6	21	17	11
6	6	3	19	13	10

Average Turnaround Time = 10.83 Average Waiting Time = 7.33

Lab-3	Pri	ority ba	sed sches	Luling (Preemption	e) CED19Ios
1) -) All for	o cesse	s arri	ve at a			
PID	AT	ВТ	Priority	СТ	TAT	WT
- 4		3	6	12	12	4
		7	5	19	19	12
- 2	0	1	2	26	26	24
3	0	2	2	20	0.4	20
4	0	4	3	24	24	A Ballings II
-5	0	9	7	9	9	0
	-	1	4	20	20	19.
-6	0		*	2		
P5 0 9		P2 P	6 P4 1 20 2	P3	Aug TAT Avg WT	= 18.33

b) Processes arrive at different times

Pid	AT	BT	Priority	СТ	TAT	WT
1	1	3	3	17	16	13
2	2	4	2	21	19	15
3	2	5	1	26	24	19
4	3	6	5	13	10	4
5	3	4	6	7	4	0
6	4	3	5	16	17	9

PI PI	PI	P5	P5	P4	P6	PI	P2	P3	T
0 1	2	3 9	7	13	3 1	6)	7 2	21	26

Aug TAT= 14.17 Avg WT = 10.

