#### **Output:**

## 1. First Come First Serve Algorithm:

```
□ "D:\Assignment && Lab\fourt ×
Enter the number of processes: 3
Enter process id of all the processes: 1
Enter burst time of all the processes: 15
9
                               Waiting Time
Process ID
               Burst Time
                                                 TurnAround Time
                15
1
                                                  15
2
                 4
                                  15
                                                  19
                                  19
                                                  28
Avg. waiting time= 11.333333
Avg. turnaround time= 20.666666
Process returned 0 (0x0)
                            execution time : 6.946 s
Press any key to continue.
```

### 2. Shortest Job First Algorithm:

```
"D:\Assignment && Lab\fourt X
Enter number of process:3
Enter Burst Time:
p1:15
p2:4
p3:9
                         Waiting Time
Process Burst Time
                                          Turnaround Time
                 4
p2
р3
                 9
                                  4
                                                           13
p1
                 15
                                  13
                                                           28
Average Waiting Time=5.666667
Average Turnaround Time=15.000000
Process returned 0 (0x0)
                            execution time : 41.133 s
Press any key to continue.
```

# 3. Round Robin Algorithm:

```
"D:\Assignment && Lab\fourt × + ~
 Total number of process in the system: 4
 Enter the Arrival and Burst time of the Process[1]
 Arrival time is:
Burst time is: 24
 Enter the Arrival and Burst time of the Process[2]
Arrival time is:
Burst time is: 3
 Enter the Arrival and Burst time of the Process[3]
 Arrival time is:
Burst time is: 3
 Enter the Arrival and Burst time of the Process[4]
Arrival time is:
Burst time is: 5
Enter the Time Quantum for the process:
                        Burst Time
                                                                 Waiting Time
Process No
Process No[2]
                                                                                 4
Process No[3]
                                                                                 7
                        3
                                                         10
Process No[4]
                        5
                                                         19
                                                                                 14
Process No[1]
                        24
                                                         35
                                                                                 11
Average Turn Around Time:
                               9.000000
Average Waiting Time: 17.750000
```

## 4. Priority Scheduling:

Enter the number of process:5

Enter Arrival time, Brust Time and Priority for process 1: 0 15 3

Enter Arrival time, Brust Time and Priority for process 2: 0 1 1

Enter Arrival time, Brust Time and Priority for process 3: 0 5 4

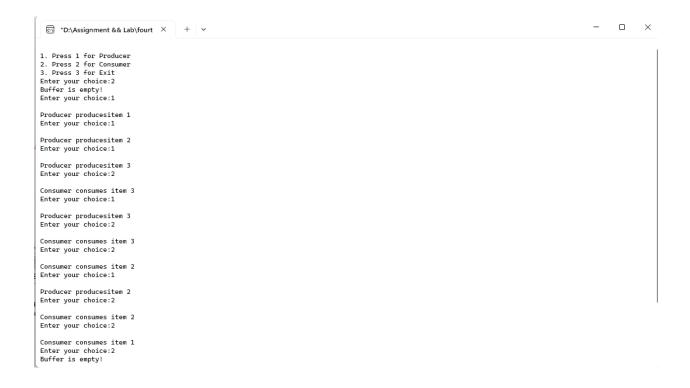
Enter Arrival time, Brust Time and Priority for process 4: 0 1 5

Enter Arrival time, Brust Time and Priority for process 5: 0 10 2

PName	Arrival-time	Burst-time	Priority	Waiting-time	Tat-time
2	Θ	1	1	0	1
5	Θ	10	2	1	11
1	Θ	15	3	11	26
3	Θ	5	4	26	31
4	0	1	5	31	32

Average waiting time is:13.800000 Average turnaroundtime is:20.200001

## 5. Producer Consumer Problem:



### **Conclusion:**

Hence, the objectives of the lab were successfully implemented.