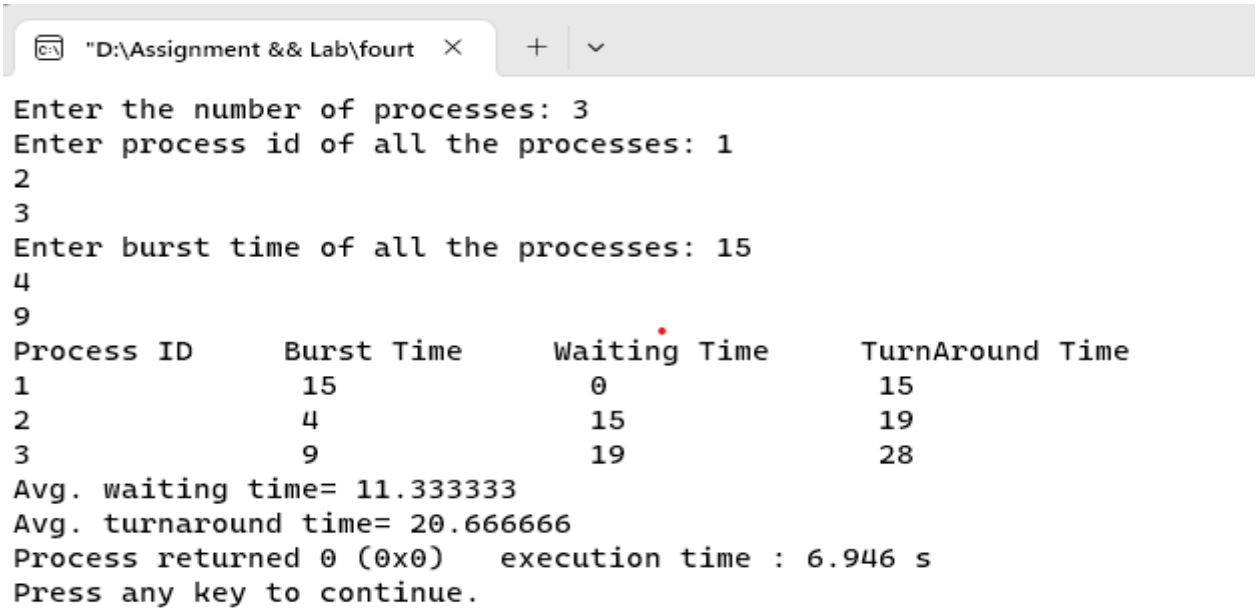
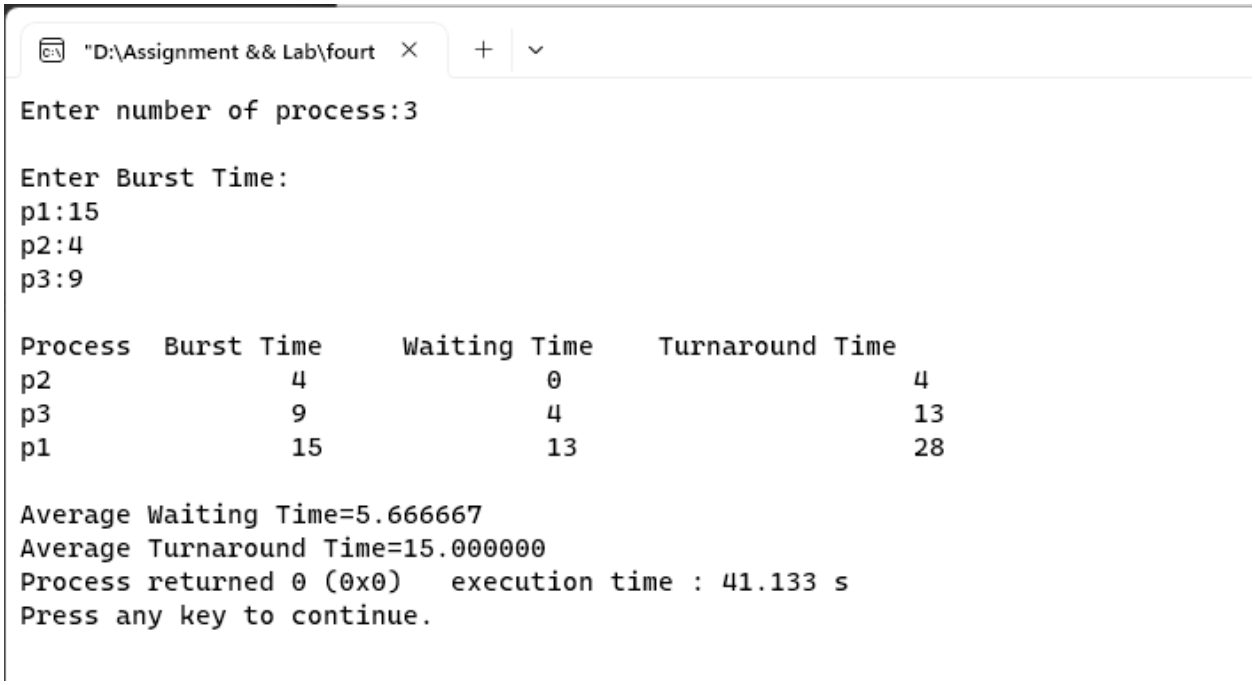
Output:

1. First Come First Serve Algorithm:



2. Shortest Job First Algorithm:



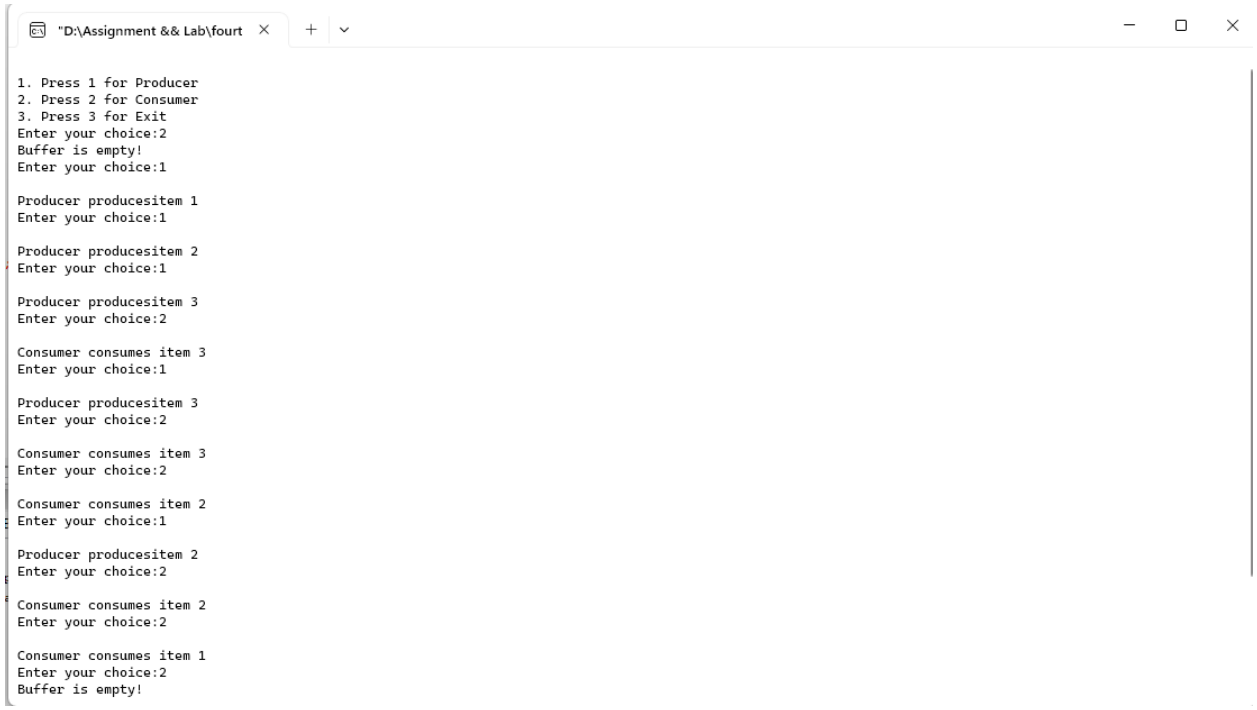
3. Round Robin Algorithm:

```
"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:       0

Burst time is:  24

 Enter the Arrival and Burst time of the Process[2]
 Arrival time is:       0

Burst time is:  3

 Enter the Arrival and Burst time of the Process[3]
 Arrival time is:       0

Burst time is:  3

 Enter the Arrival and Burst time of the Process[4]
 Arrival time is:       0

Burst time is:  5
Enter the Time Quantum for the process:         4

 Process No              Burst Time              TAT             Waiting Time
Process No[2]            3                               7                       4
Process No[3]            3                               10                      7
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:

```
"D:\Assignment && Lab\fourt
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           0               1               1               0               1
5           0               10              2               1               11
1           0               15              3               11              26
3           0               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.