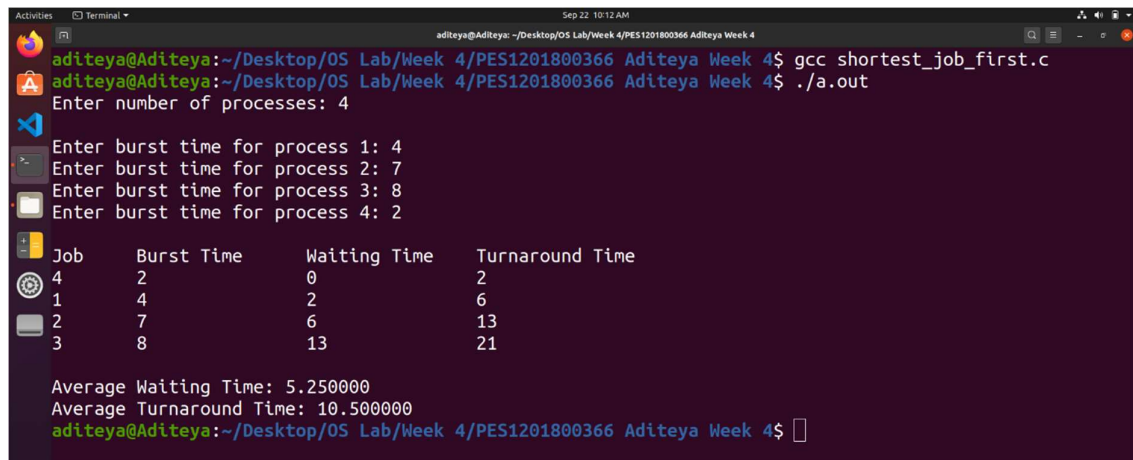


# OS Lab Report – Week 4

PES1201800366

Aditeya Baral

1. Write a C program to implement Shortest-Job-First scheduling algorithm.

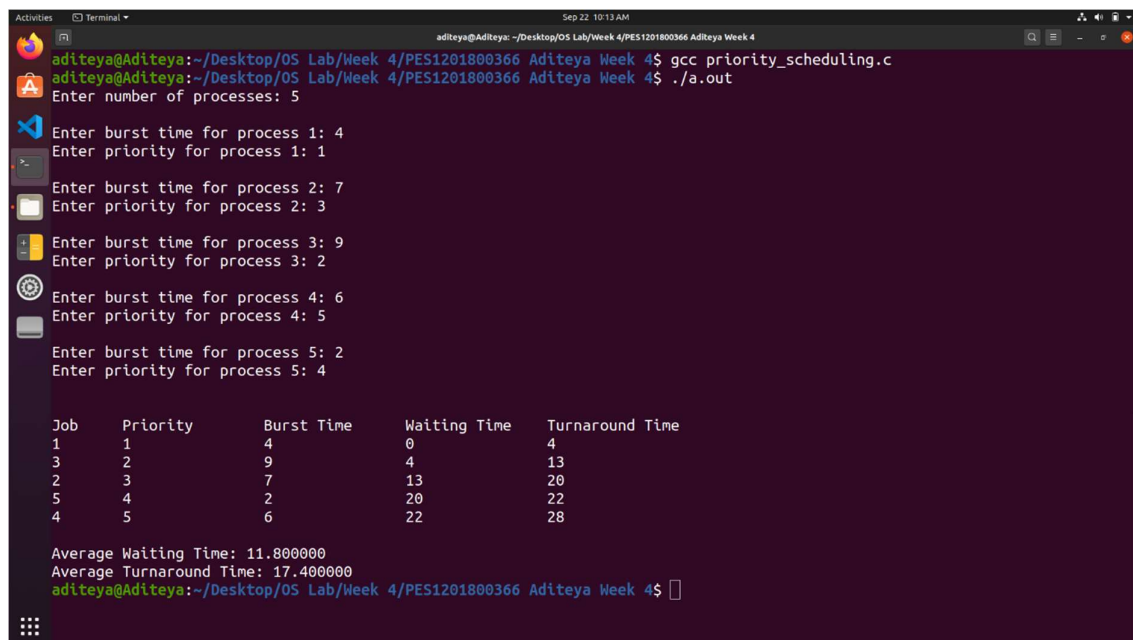


```
aditeya@Aditeya: ~/Desktop/OS Lab/Week 4/PES1201800366 Aditeya Week 4
aditeya@Aditeya:~/Desktop/OS Lab/Week 4/PES1201800366 Aditeya Week 4$ gcc shortest_job_first.c
aditeya@Aditeya:~/Desktop/OS Lab/Week 4/PES1201800366 Aditeya Week 4$ ./a.out
Enter number of processes: 4
Enter burst time for process 1: 4
Enter burst time for process 2: 7
Enter burst time for process 3: 8
Enter burst time for process 4: 2

Job    Burst Time    Waiting Time    Turnaround Time
4      2             0              2
1      4             2              6
2      7             6              13
3      8             13             21

Average Waiting Time: 5.250000
Average Turnaround Time: 10.500000
aditeya@Aditeya:~/Desktop/OS Lab/Week 4/PES1201800366 Aditeya Week 4$
```

2. Write a C program to implement Priority Scheduling algorithm.



```
aditeya@Aditeya:~/Desktop/OS Lab/Week 4/PES1201800366 Aditeya Week 4$ gcc priority_scheduling.c
aditeya@Aditeya:~/Desktop/OS Lab/Week 4/PES1201800366 Aditeya Week 4$ ./a.out
Enter number of processes: 5
Enter burst time for process 1: 4
Enter priority for process 1: 1
Enter burst time for process 2: 7
Enter priority for process 2: 3
Enter burst time for process 3: 9
Enter priority for process 3: 2
Enter burst time for process 4: 6
Enter priority for process 4: 5
Enter burst time for process 5: 2
Enter priority for process 5: 4

Job    Priority    Burst Time    Waiting Time    Turnaround Time
1      1          4             0              4
3      2          9             4              13
2      3          7             13             20
5      4          2             20             22
4      5          6             22             28

Average Waiting Time: 11.800000
Average Turnaround Time: 17.400000
aditeya@Aditeya:~/Desktop/OS Lab/Week 4/PES1201800366 Aditeya Week 4$
```