

```

srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ gedit system.c
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ gcc system.c -o system
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ ./system
Enter the number of processes: 4
Enter the burst time for each process:
P1: 10
P2: 5
P3: 8
P4: 3

Gantt Chart

P1 | P2 | P3 | P4 |
10 15 23 26

Average waiting time: 12.00
Average turnaround time: 18.50
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$
```

```

srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ gedit systemc.c
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ gedit systemc.c
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ gcc systemc.c -o systemc
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ ./systemc
Enter the number of processes: 4

Enter Burst Time and Priority for Process P1:
Burst Time: 6
Priority: 3

Enter Burst Time and Priority for Process P2:
Burst Time: 8
Priority: 1

Enter Burst Time and Priority for Process P3:
Burst Time: 7
Priority: 4

Enter Burst Time and Priority for Process P4:
Burst Time: 3
Priority: 2

Process ID      Burst Time      Priority      Waiting Time
P2              8                1              0
P4              3                2              8
P1              6                3              11
P3              7                4              17

Average Waiting Time: 9.00
Average Turnaround Time: 15.00
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ 5~
```

```
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ gcc systemb.c -o systemb
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ ./systemb
Enter the number of processes: 4
Enter the burst time for each process:
P1: 6
P2: 8
P3: 7
P4: 3

Gantt Chart

P4| P1| P3| P2|
3 9 16 24

Average waiting time is 7.00
Average turnaround time is 13.00
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ █
```

```
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ gedit systemd.c
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ gcc systemd.c -o systemd
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$ ./systemd
Enter the number of processes: 4
Enter the burst time for each process:
P1: 5
P2: 9
P3: 6
P4: 7
Enter the time quantum: 4

Process ID      Burst Time      Waiting Time     Turnaround Time
1                5                  12                 17
2                9                  18                 27
3                6                  17                 23
4                7                  19                 26

Average Waiting Time: 16.50
Average Turnaround Time: 23.25
srm@srm-HP-Pro-SFF-280-G9-Desktop-PC:~$
```