

```
● 4ITA2@debian:~/ARPIT_240911630/Lab5$ date
Thu Feb 19 15:07:17 IST 2026
● 4ITA2@debian:~/ARPIT_240911630/Lab5$ echo "Arpit"
Arpit
● 4ITA2@debian:~/ARPIT_240911630/Lab5$ gcc Lab5_q1.c -o q1
○ 4ITA2@debian:~/ARPIT_240911630/Lab5$ ./q1
```

CPU Scheduling Menu:

1. FCFS
2. SRTF
3. Round Robin (q=10)
4. Non-preemptive Priority
5. Exit

Enter choice: 1

FCFS Gantt Chart:

|P1(0-60)|P2(60-90)|P3(90-130)|P4(130-140)|

Avg Waiting=66.00, Avg Turnaround=101.00

```
● 4ITA2@debian:~/ARPIT_240911630/Lab5$ date
Thu Feb 19 15:11:25 IST 2026
● 4ITA2@debian:~/ARPIT_240911630/Lab5$ echo "Arpit"
Arpit
● 4ITA2@debian:~/ARPIT_240911630/Lab5$ gcc Lab5_q1.c -o q1
○ 4ITA2@debian:~/ARPIT_240911630/Lab5$ ./q1
```

CPU Scheduling Menu:

1. FCFS
2. SRTF
3. Round Robin (q=10)
4. Non-preemptive Priority
5. Exit

Enter choice: 2

SRTF Gantt Chart:

Avg Waiting=32.25, Avg Turnaround=67.25

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
4ITA2@debian:~/ARPIT_240911630/Lab5$ date
Thu Feb 19 15:12:40 IST 2026
4ITA2@debian:~/ARPIT_240911630/Lab5$ echo "Arpit"
Arpit
4ITA2@debian:~/ARPIT_240911630/Lab5$ gcc Lab5_q2.c -o q2
4ITA2@debian:~/ARPIT_240911630/Lab5$ ./q2
MLFQ Simulator
Enter number of processes: 3
ID: P1
Arrival time: 12
Burst time: 40
ID: P2
Arrival time: 10
Burst time: 34
ID: P3
Arrival time: 5
Burst time: 23

Gantt:
| idle | P3 | P2 | P1 | P3 | P2 | P1 | P2 | P1 |

Results:
ID AT BT ST CT TAT WT
P3 5 23 5 44 39 16
P2 10 34 13 86 76 42
P1 12 40 21 102 90 50
Average TAT=68.33, Average WT=36.00
4ITA2@debian:~/ARPIT_240911630/Lab5$
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
• 4ITA2@debian:~/ARPIT_240911630/Lab5$ date
Thu Feb 19 15:19:08 IST 2026
• 4ITA2@debian:~/ARPIT_240911630/Lab5$ echo "Arpit"
Arpit
• 4ITA2@debian:~/ARPIT_240911630/Lab5$ gcc Lab5_q3.c -o q3
• 4ITA2@debian:~/ARPIT_240911630/Lab5$ ./q3
EDF Scheduler (preemptive)
Enter number of tasks: 2
Task ID: 1
Arrival time: 0
Computation time: 5
Absolute deadline: 6
Task ID: 2
Arrival time: 1
Computation time: 2
Absolute deadline: 10

Gantt:
| 1 | 1 | 1 | 1 | 1 | 2 | 2 |

Results:
ID AT C DL ST CT TAT WT Missed
1 0 5 6 0 5 5 0 NO
2 1 2 10 5 7 6 4 NO
Average TAT=5.50, Average WT=2.00
• 4ITA2@debian:~/ARPIT_240911630/Lab5$
```