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SUBJECT: Operating System
SECTION: COM232
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Lab Activity 4: Priority Preemptive Scheduling

Sample Output for checking

Number of Processes: 5

P1: AT=0,	BT=11,	Priority=2
P2: AT=5,	BT=28,	Priority=0
P3: AT=12,	BT=2,	Priority=3
P4: AT=2,	BT=10,	Priority=1
P5: AT=9,	BT=16,	Priority=4

```
C:\Users\flexycode\.jdk\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ I
Enter the number of processes (3-5): 5

Enter process details:

Process 1:
  Arrival Time: 0
  Burst Time: 11
  Priority: 2

Process 2:
  Arrival Time: 5
  Burst Time: 28
  Priority: 0

Process 3:
  Arrival Time: 12
  Burst Time: 2
  Priority: 3

Process 4:
  Arrival Time: 2
  Burst Time: 10
  Priority: 1

Process 5:
  Arrival Time: 9
  Burst Time: 16
  Priority: 4
```

```
+-----+-----+-----+-----+-----+-----+-----+
| PID   | Arrival Time | Burst Time | Priority | Completion Time | Turnaround Time | Waiting Time |
+-----+-----+-----+-----+-----+-----+-----+
| P1    |      0      |     11     |    2    |      49         |      49         |      38      |
| P2    |      5      |     28     |    0    |      33         |      28         |       0       |
| P3    |     12      |      2     |    3    |      51         |      39         |      37      |
| P4    |      2      |     10     |    1    |      40         |      38         |      28      |
| P5    |      9      |     16     |    4    |      67         |      58         |      42      |
+-----+-----+-----+-----+-----+-----+-----+

PERFORMANCE METRICS
=====
Average Turnaround Time: 42.40 ms
Average Waiting Time: 29.00 ms
=====

Gantt Chart:
Proc:  P1 | P4 | P2 | P4 | P1 | P3 | P5
Time:  0  2  5  33 40 49 51 67

Do you want to try again? (yes/no): yes

> src > SNFN > main
```

Noticeable Error:

According to the PDF:

Process 5 (P5) has BT=16 and arrives at time 9

The Gantt chart shows P5 executing from time 51 to 67 (which is 16 time units)

but the completion time in the table shows 51, which doesn't match the Gantt chart

The Gantt chart shows P5 ending at time 67, but the table shows completion time as 51.