

Nama : Dimas

Kharismawn

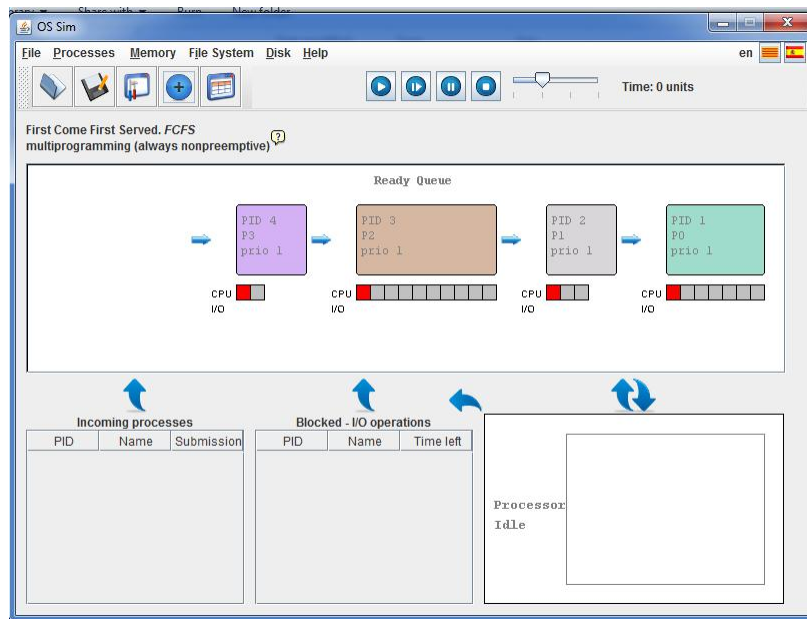
Nim : L200180102

Kelas : C

MODUL 11

| PROSES | BURST TIME | PRIORITY |
|--------|------------|----------|
| P0 | 7 | 4 |
| P1 | 3 | 2 |
| P2 | 10 | 1 |
| P3 | 2 | 3 |

A. FCFS



Process Scheduling Information

Efficiency (%) 0.88

Throughput (processes/time unit) 0.16

Avg. Turnaround Time (time) 14.75

Avg. Waiting Time (time) 9.25

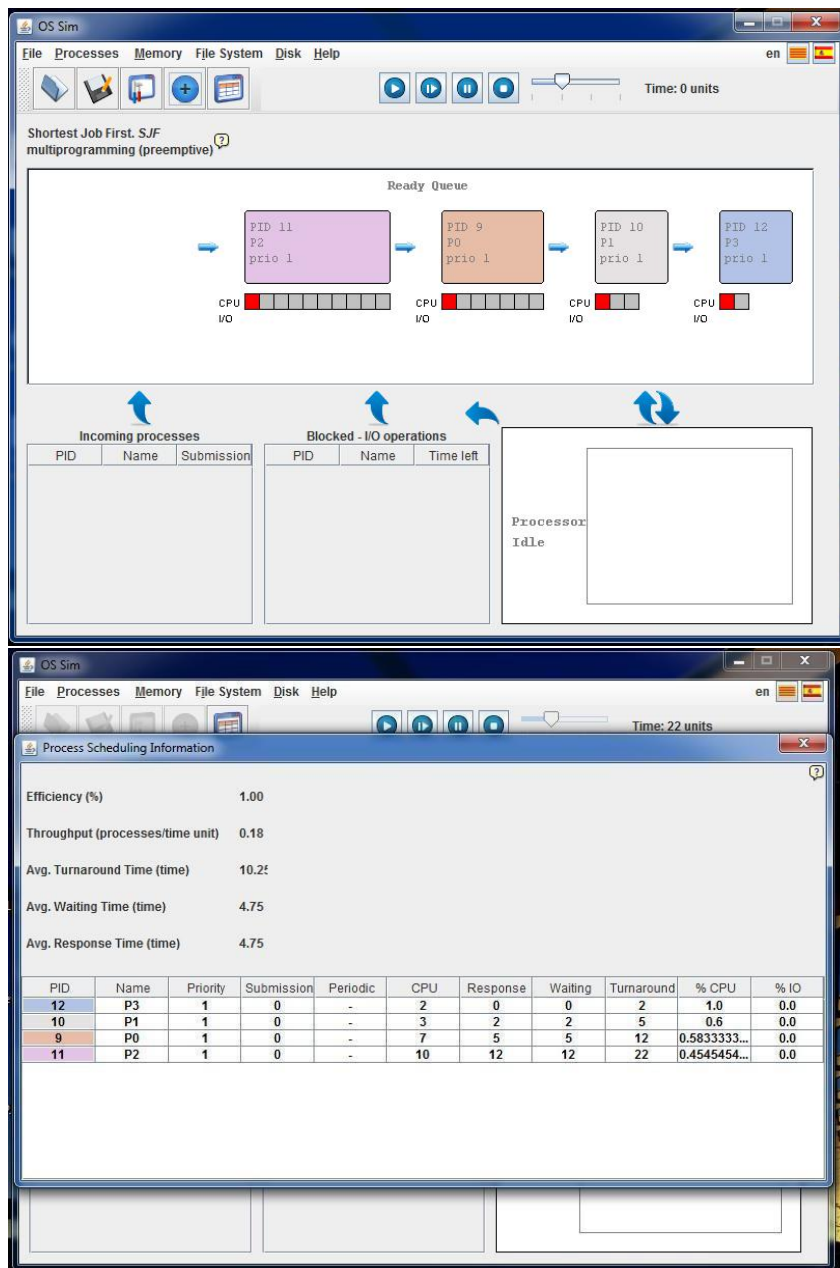
Avg. Response Time (time) 9.25

| PID | Name | Priority | Submission | Periodic | CPU | Response | Waiting | Turnaround | % CPU | % IO |
|-----|------|----------|------------|----------|-----|----------|---------|------------|-------------|------|
| 1 | P0 | 1 | 0 | - | 7 | 0 | 0 | 7 | 1.0 | 0.0 |
| 2 | P1 | 1 | 0 | - | 3 | 7 | 7 | 10 | 0.3 | 0.0 |
| 3 | P2 | 1 | 0 | - | 10 | 10 | 10 | 20 | 0.5 | 0.0 |
| 4 | P3 | 1 | 0 | - | 2 | 20 | 20 | 22 | 0.090909... | 0.0 |

| PROSES | WAIT TIME |
|------------------|-----------|
| P0 | 0 |
| P1 | 7 |
| P2 | 20 |
| P3 | 22 |
| AV. WAITING TIME | 9.25 |
| AV. TURNAROUND | 14.75 |
| AV. RESPONSE | 9.25 |

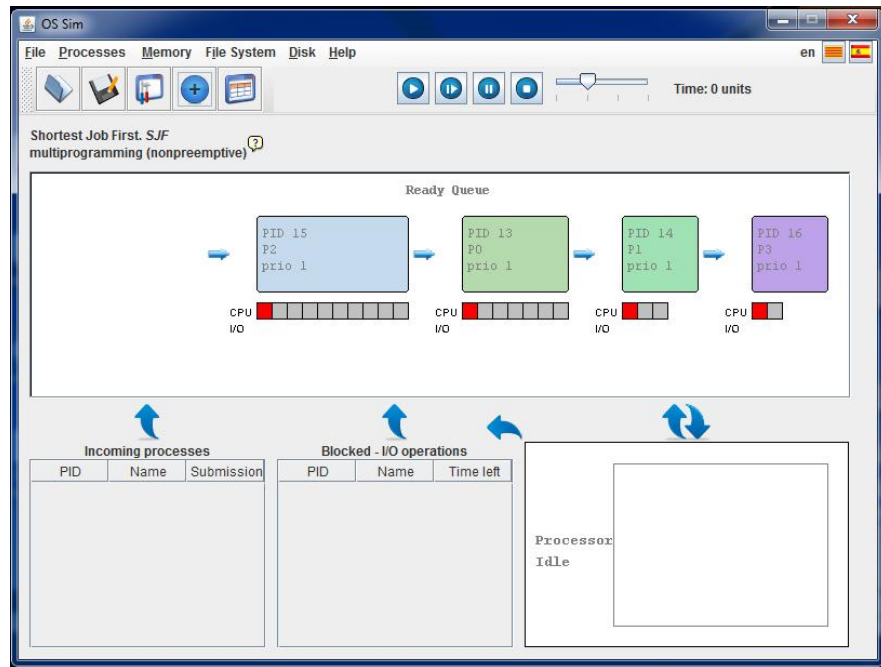
B. SJFS

- PREMTIVE



| PROSES | WAIT TIME |
|------------------|-----------|
| P0 | 5 |
| P1 | 2 |
| P2 | 12 |
| P3 | 0 |
| AV. WAITING TIME | 4.75 |
| AV. TURNAROUND | 10.25 |
| AV. RESPONSE | 4.75 |

- NON- PREMTIVE

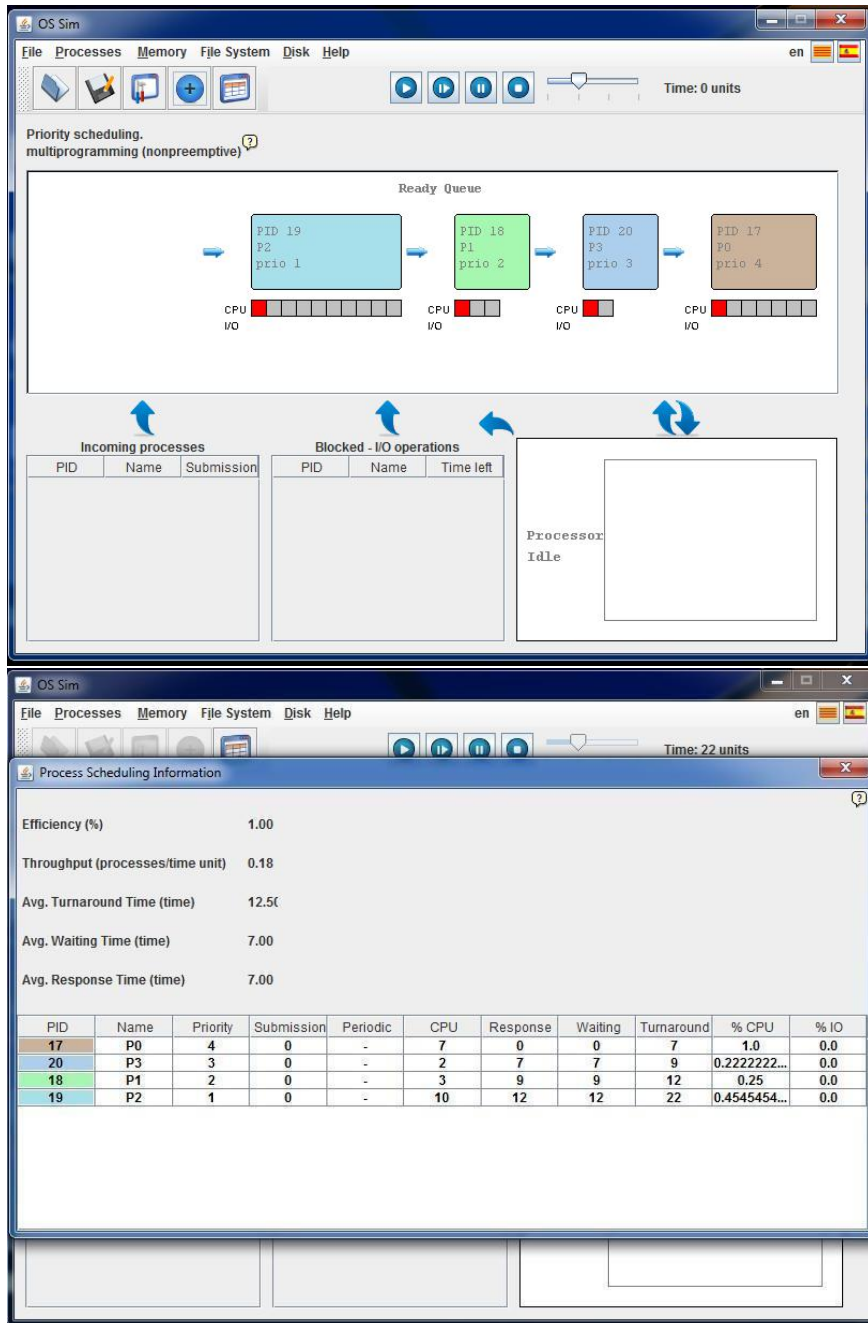


OS Sim interface showing process scheduling information. The Process Scheduling Information window displays efficiency, throughput, and average turnaround, waiting, and response times. A table below shows the execution details for each process.

| PID | Name | Priority | Submission | Periodic | CPU | Response | Waiting | Turnaround | % CPU | % IO |
|-----|------|----------|------------|----------|-----|----------|---------|------------|--------------|------|
| 16 | P3 | 1 | 0 | - | 2 | 0 | 0 | 2 | 1.0 | 0.0 |
| 14 | P1 | 1 | 0 | - | 3 | 2 | 2 | 5 | 0.6 | 0.0 |
| 13 | P0 | 1 | 0 | - | 7 | 5 | 5 | 12 | 0.5833333... | 0.0 |
| 15 | P2 | 1 | 0 | - | 10 | 12 | 12 | 22 | 0.4545454... | 0.0 |

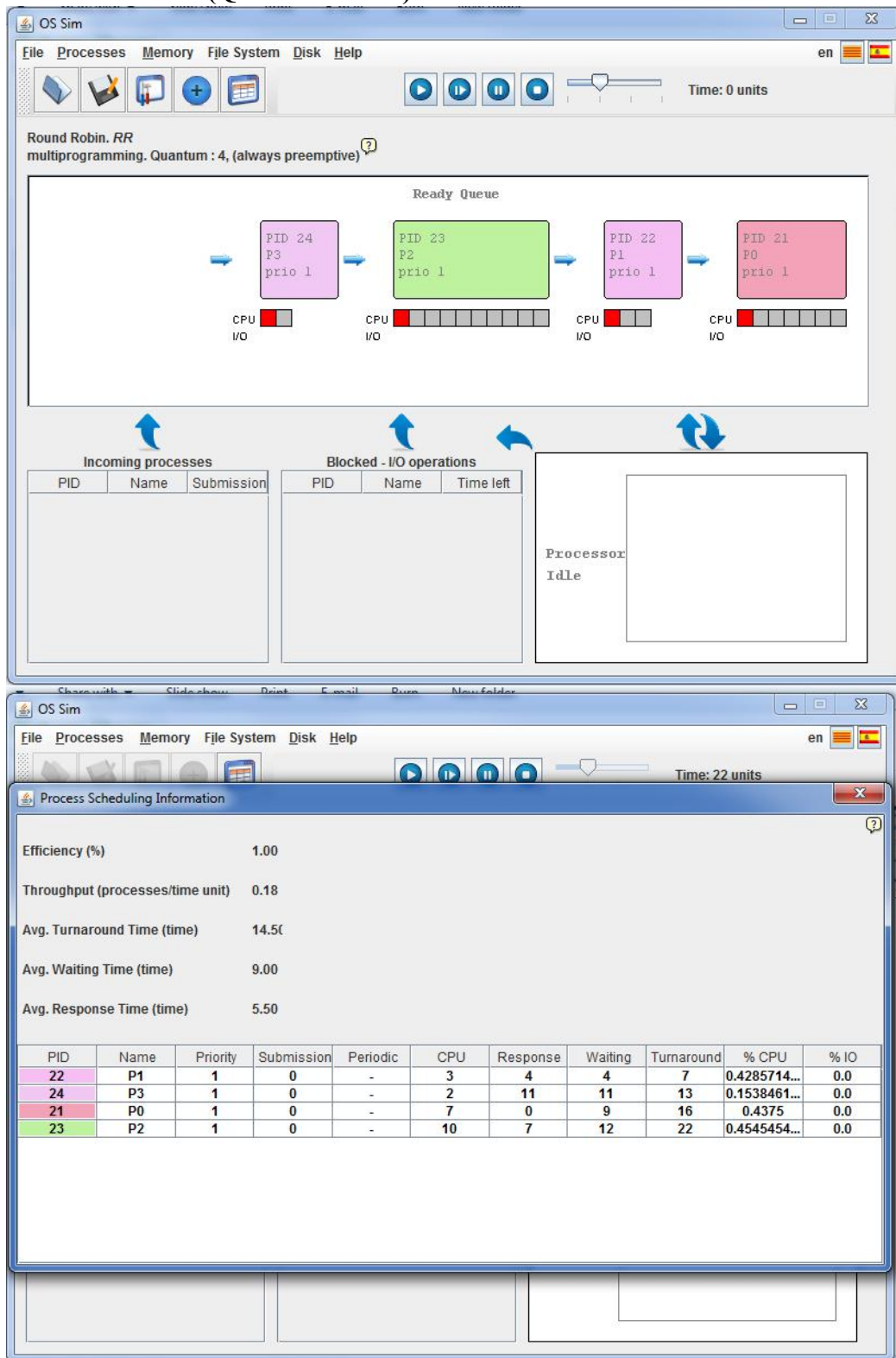
| PROSES | WAIT TIME |
|------------------|--------------|
| P0 | 5 |
| P1 | 2 |
| P2 | 12 |
| P3 | 0 |
| AV. WAITING TIME | 4.75 |
| AV. TURNAROUND | 10.25 |
| AV. RESPONSE | 4.75 |

C. PRIORITY SCHEDULING



| PROSES | WAIT TIME |
|------------------|-----------|
| P0 | 0 |
| P1 | 9 |
| P2 | 12 |
| P3 | 7 |
| AV. WAITING TIME | 7.00 |
| AV. TURNAROUND | 12.50 |
| AV. RESPONSE | 7.00 |

D. ROUND ROBIN (QUANTUM = 4)



| PROSES | WAIT TIME |
|------------------|----------------------|
| P0 | 9 |
| P1 | 4 |
| P2 | 12 |
| P3 | 11 |
| AV. WAITING TIME | 9.00 |
| AV. TURNAROUND | 14.50 |
| AV. RESPONSE | 5.50 |