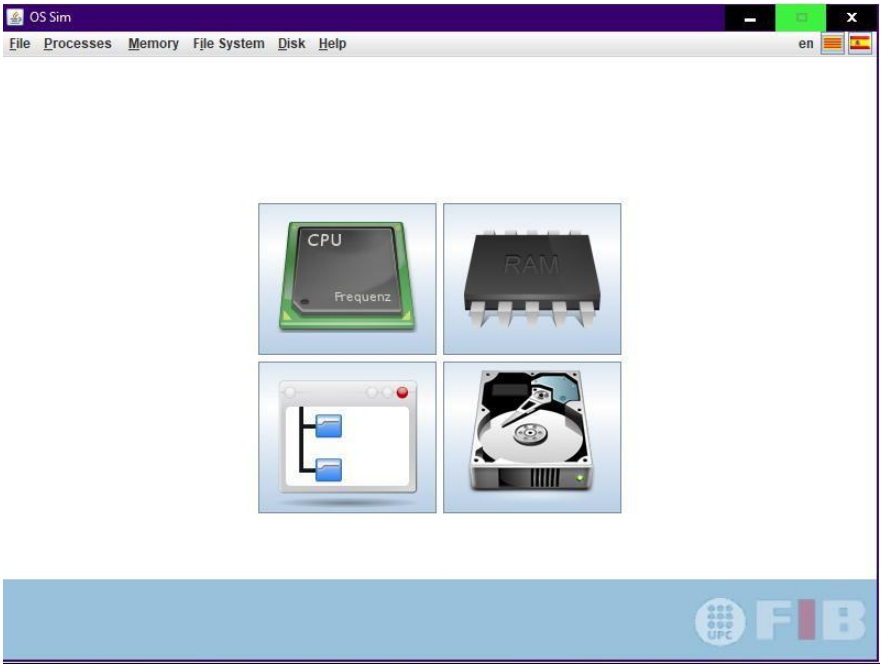
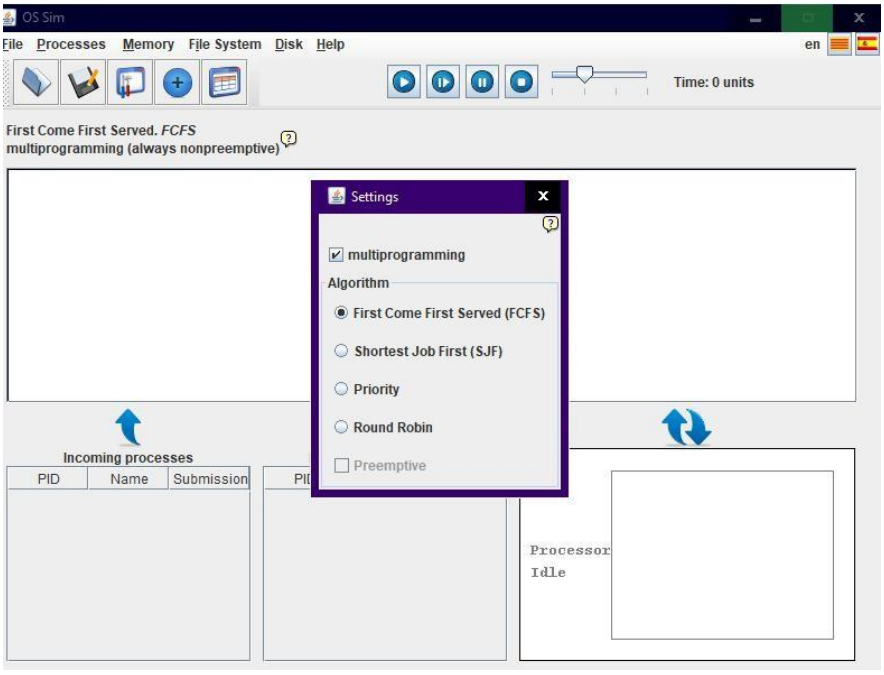
Nama : Viola Lovitasari

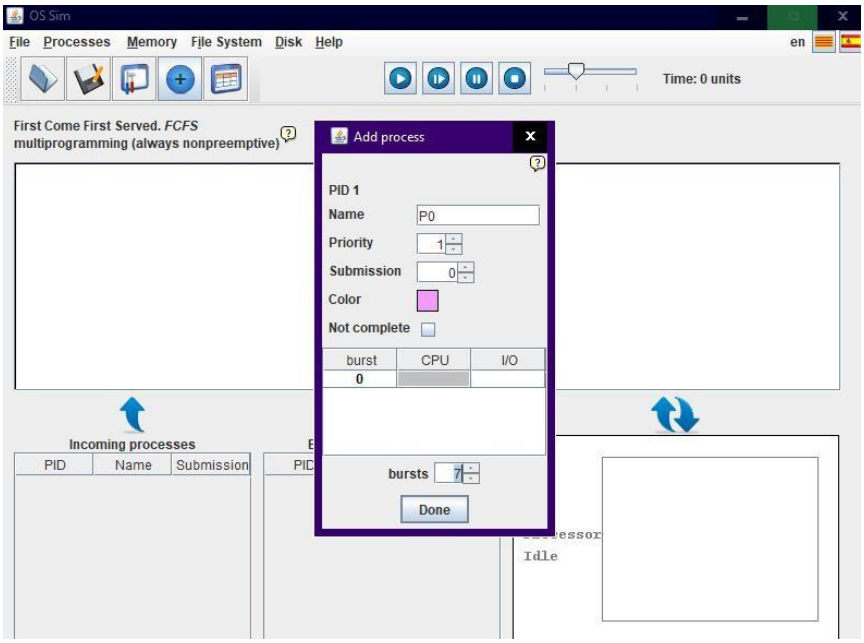
NIM / kelas : 173 / D

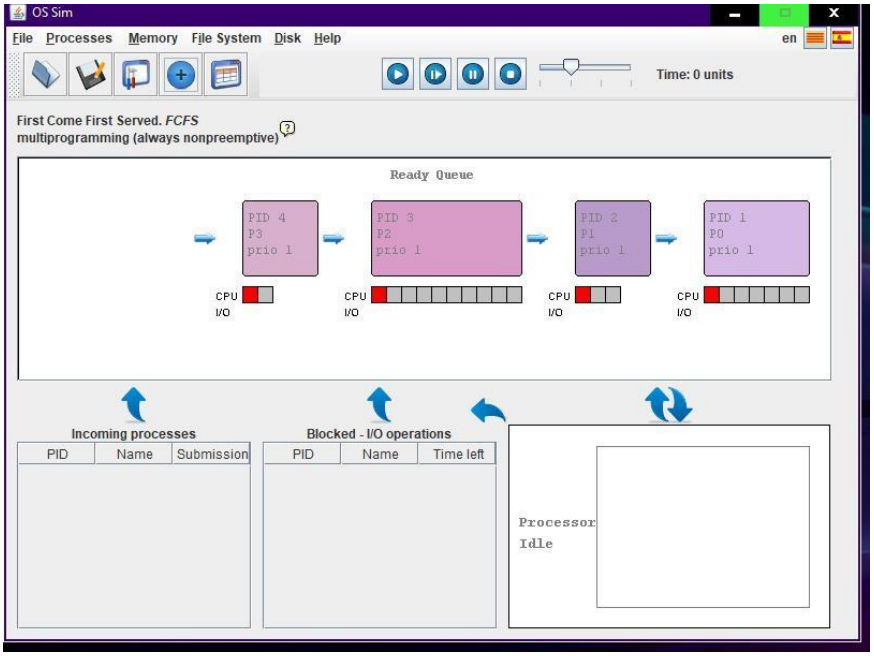
1. FCFS

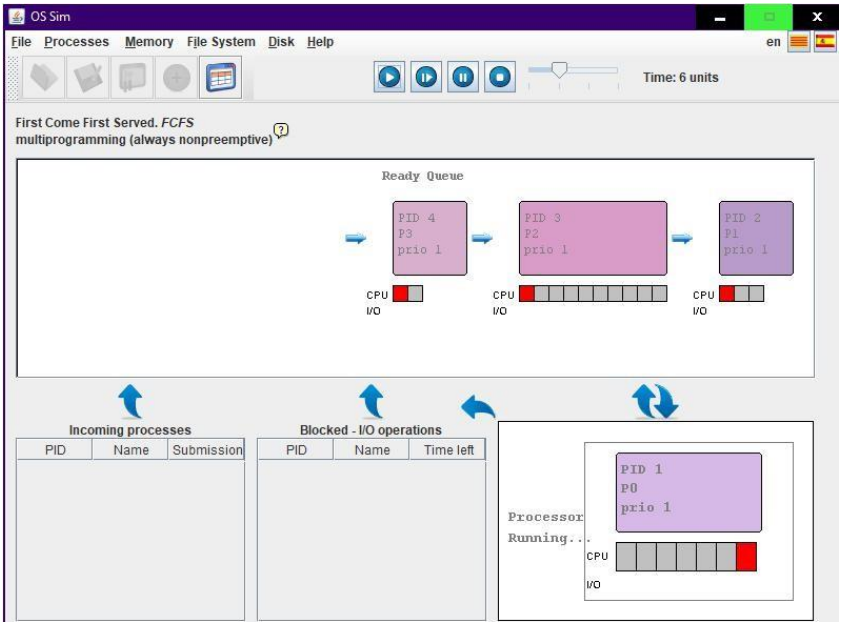
Proses	Arrival time	Burst time	Service time	Priority
P0	0	7	0	4
P1	1	3	7	2
P2	2	10	10	1
P3	3	2	20	3

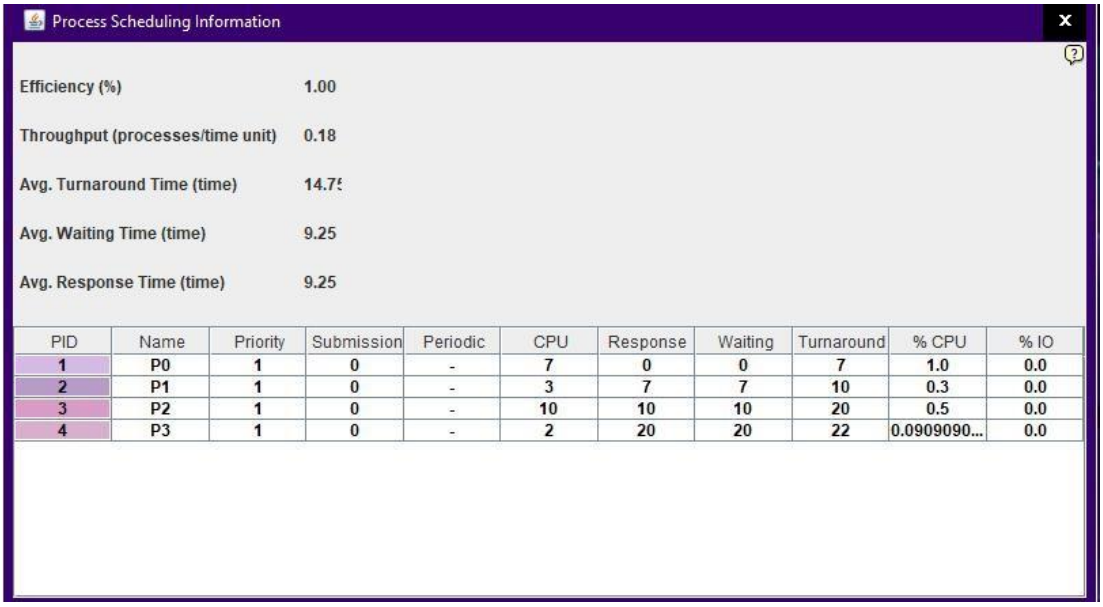





OS Sim
File Processes Memory File System Disk Help
en
Time: 0 units
First Come First Served. FCFS
multiprogramming (always nonpreemptive)
Add process
PID 1
Name P0
Priority 1
Submission 0
Color
Not complete
burst CPU I/O
0
bursts 7
Done
Incoming processes
PID Name Submission
Idle


OS Sim
File Processes Memory File System Disk Help
en
Time: 0 units
First Come First Served. FCFS
multiprogramming (always nonpreemptive)
Ready Queue
PID 4
P3
prio 1
PID 3
P2
prio 1
PID 2
P1
prio 1
PID 1
P0
prio 1
CPU
I/O
Incoming processes
PID Name Submission
Blocked - I/O operations
PID Name Time left
Processor
Idle

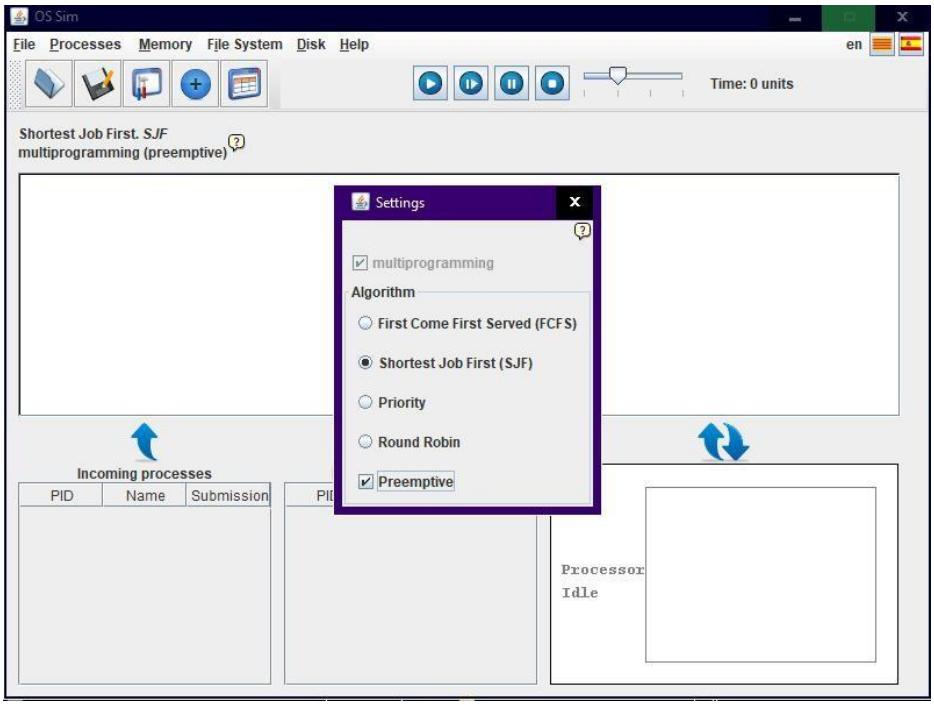

OS Sim
File Processes Memory File System Disk Help
en
Time: 6 units
First Come First Served. FCFS
multiprogramming (always nonpreemptive)
Ready Queue
PID 4
P3
prio 1
PID 3
P2
prio 1
PID 2
P1
prio 1
CPU
I/O
Incoming processes
PID Name Submission
Blocked - I/O operations
PID Name Time left
Processor
Running...
PID 1
P0
prio 1

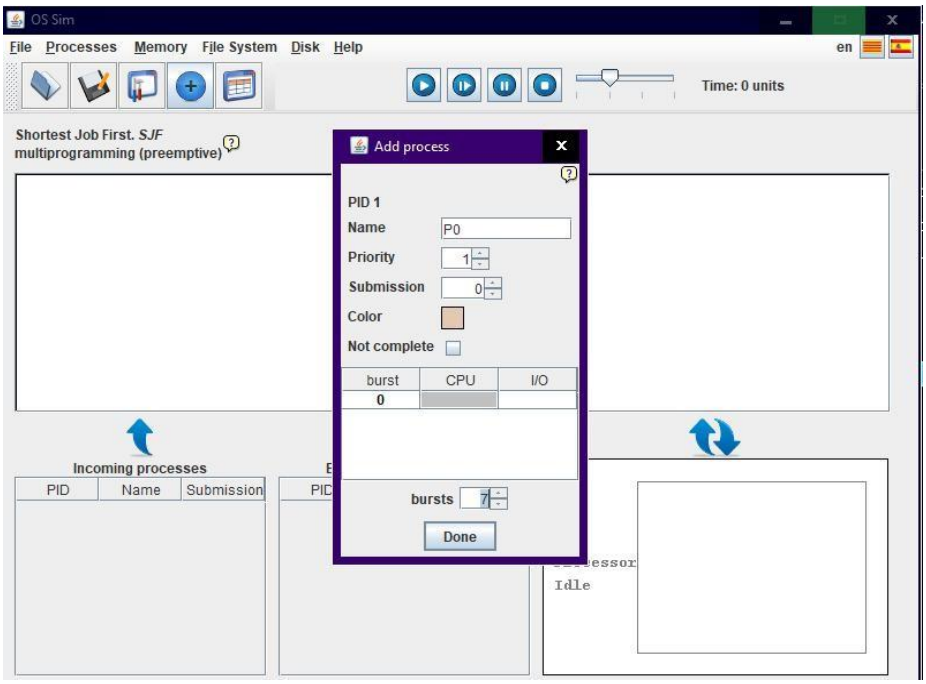


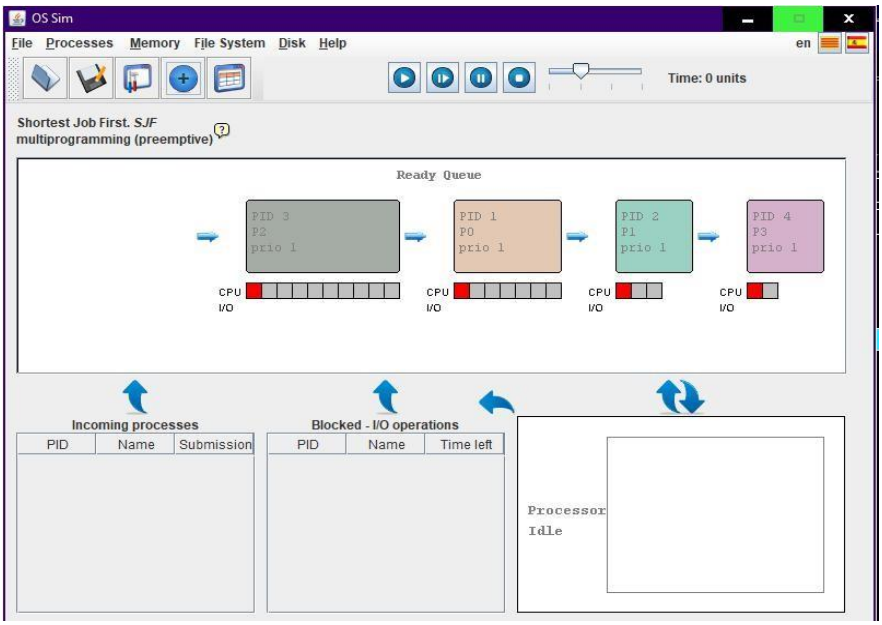
Process	Wait time
P0	0
P1	7
P2	10
P3	20
Avg. waiting time	9.25
Avg. Turnaround	14.75
Avg. Response	9.25

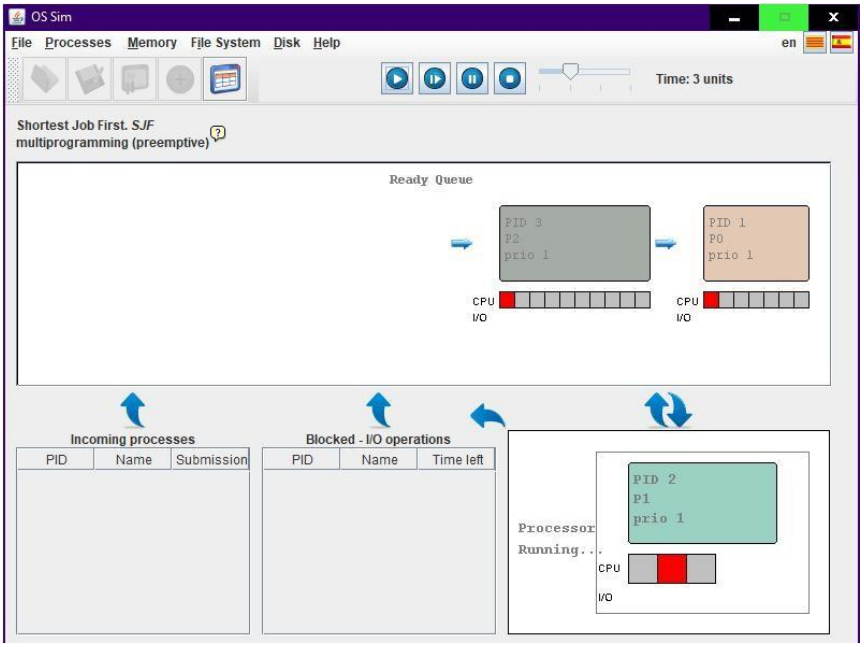
2. SJFS

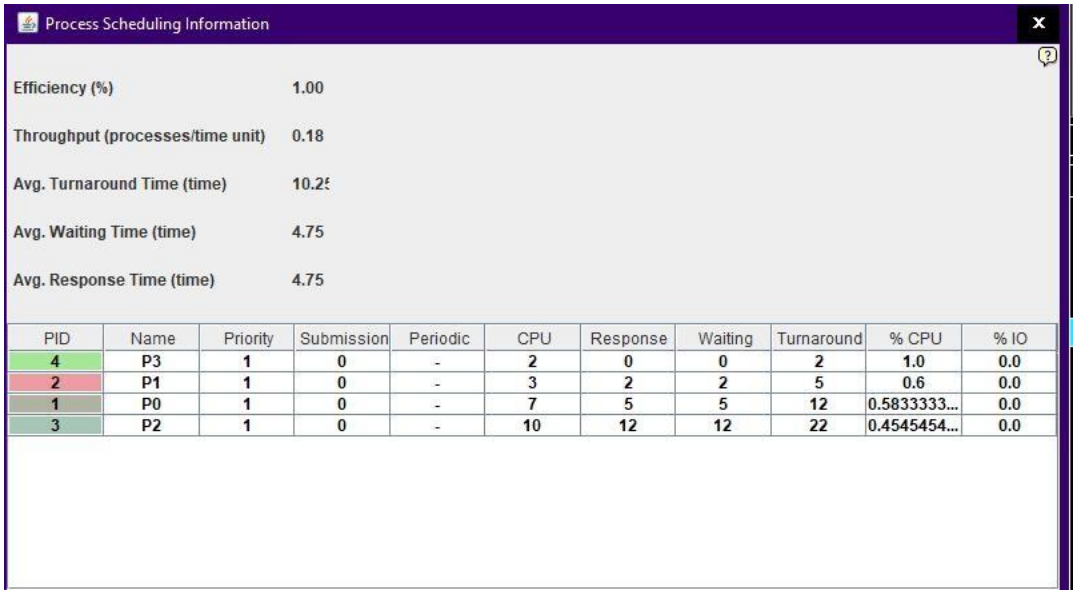
a. Premivite




OS Sim
File Processes Memory File System Disk Help
en
Time: 0 units
Shortest Job First. SJF
multiprogramming (preemptive)
Add process
PID 1
Name
P0
Priority
1
Submission
0
Color
Not complete
burst
CPU
I/O
0
bursts
7
Done
Incoming processes
PID
Name
Submission
Idle

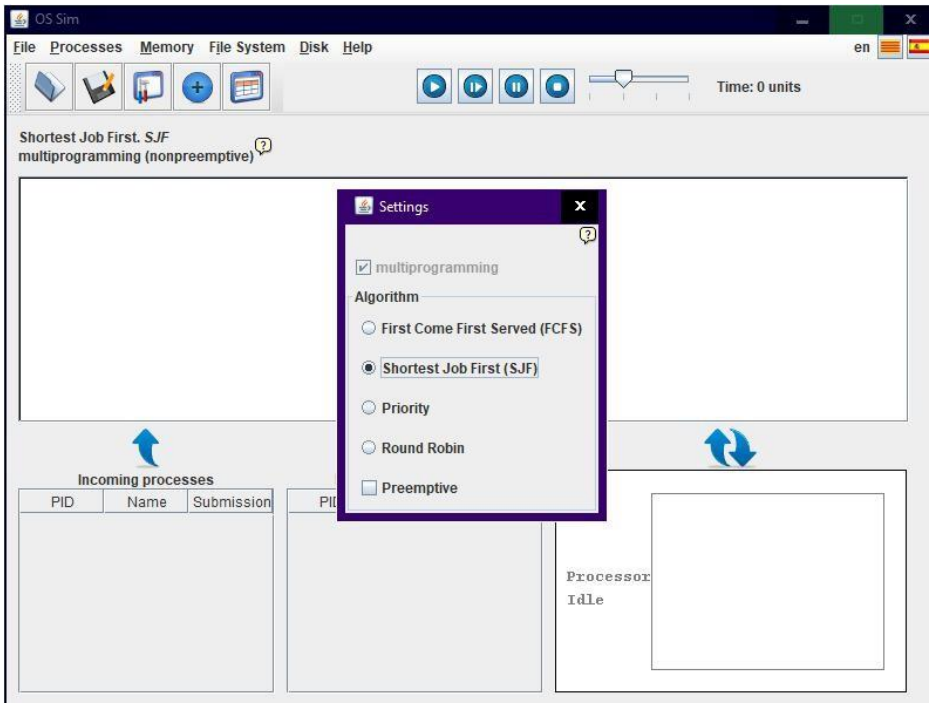

OS Sim
File Processes Memory File System Disk Help
en
Time: 0 units
Shortest Job First. SJF
multiprogramming (preemptive)
Ready Queue
PID 3
P2
prio 1
PID 1
P0
prio 1
PID 2
P1
prio 1
PID 4
P3
prio 1
CPU
I/O
Incoming processes
PID
Name
Submission
Blocked - I/O operations
PID
Name
Time left
Processor
Idle

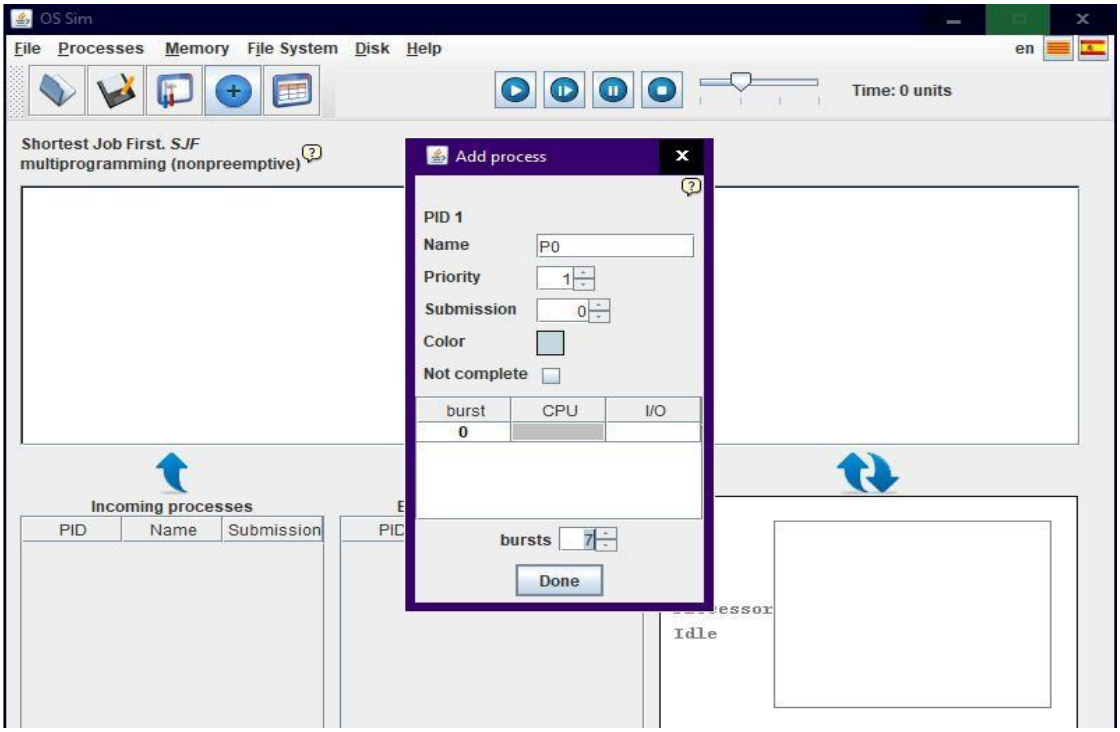

OS Sim
File Processes Memory File System Disk Help
en
Time: 3 units
Shortest Job First. SJF
multiprogramming (preemptive)
Ready Queue
PID 3
P2
prio 1
PID 1
P0
prio 1
CPU
I/O
Incoming processes
PID
Name
Submission
Blocked - I/O operations
PID
Name
Time left
Processor
Running...
PID 2
P1
prio 1
CPU
I/O

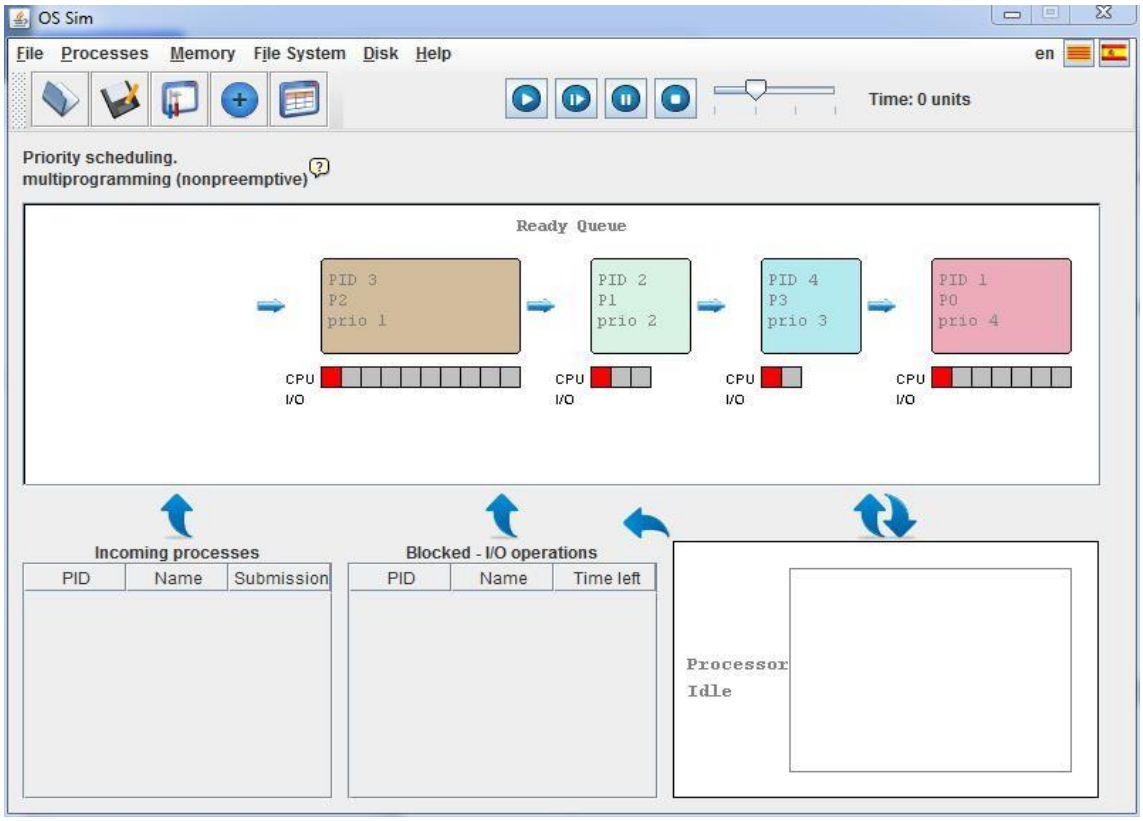


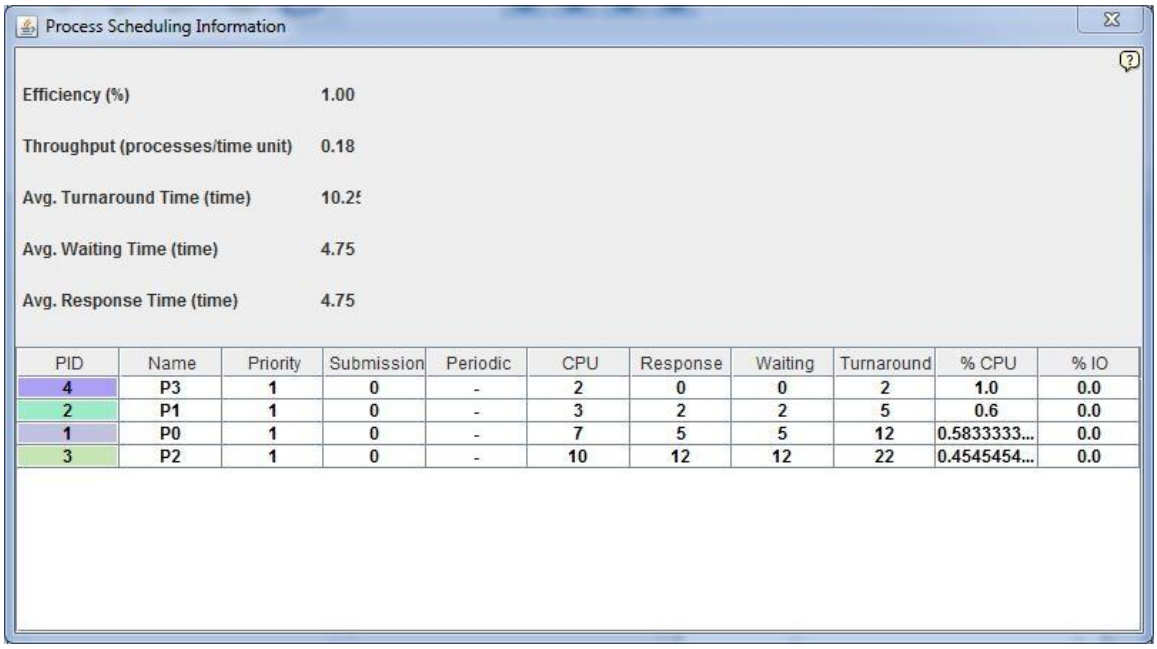
Process	Wait time
P0	5
P1	2
P2	12
P3	0
Avg. waiting time	4.75
Avg. Turnaround	10.25
Avg. Response	4.75

b. Non premitive



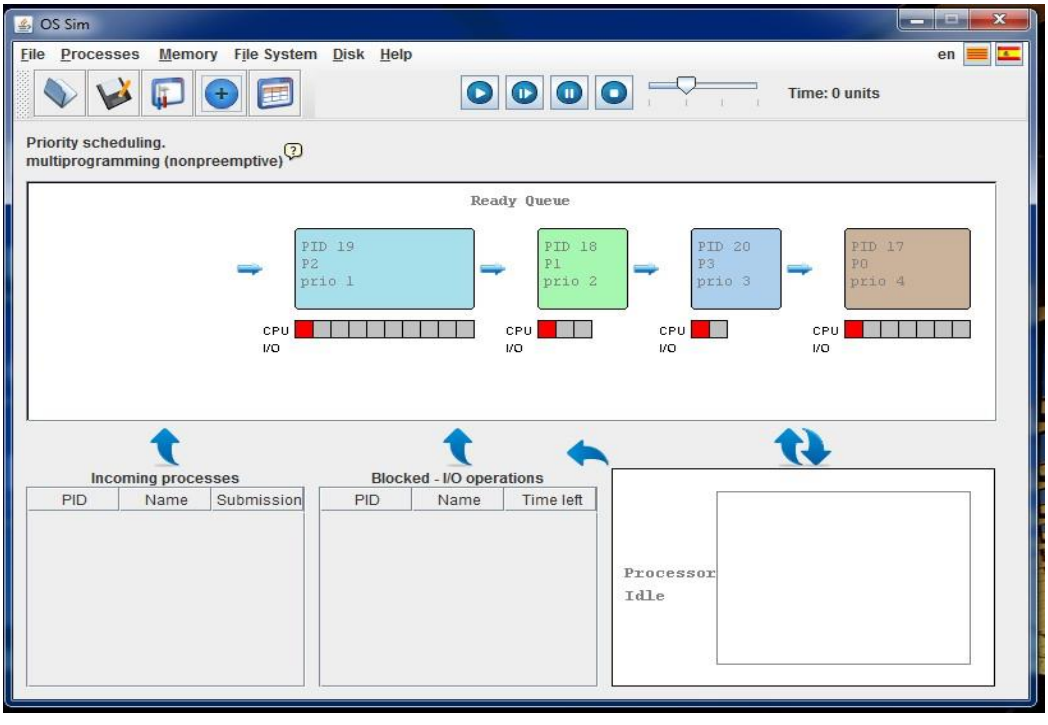

OS Sim
File Processes Memory File System Disk Help
en
Time: 0 units
Shortest Job First. SJF
multiprogramming (nonpreemptive)
Add process
PID 1
Name
P0
Priority
1
Submission
0
Color
Not complete
burst
CPU
I/O
0
bursts
7
Done
Incoming processes
PID
Name
Submission
Idle

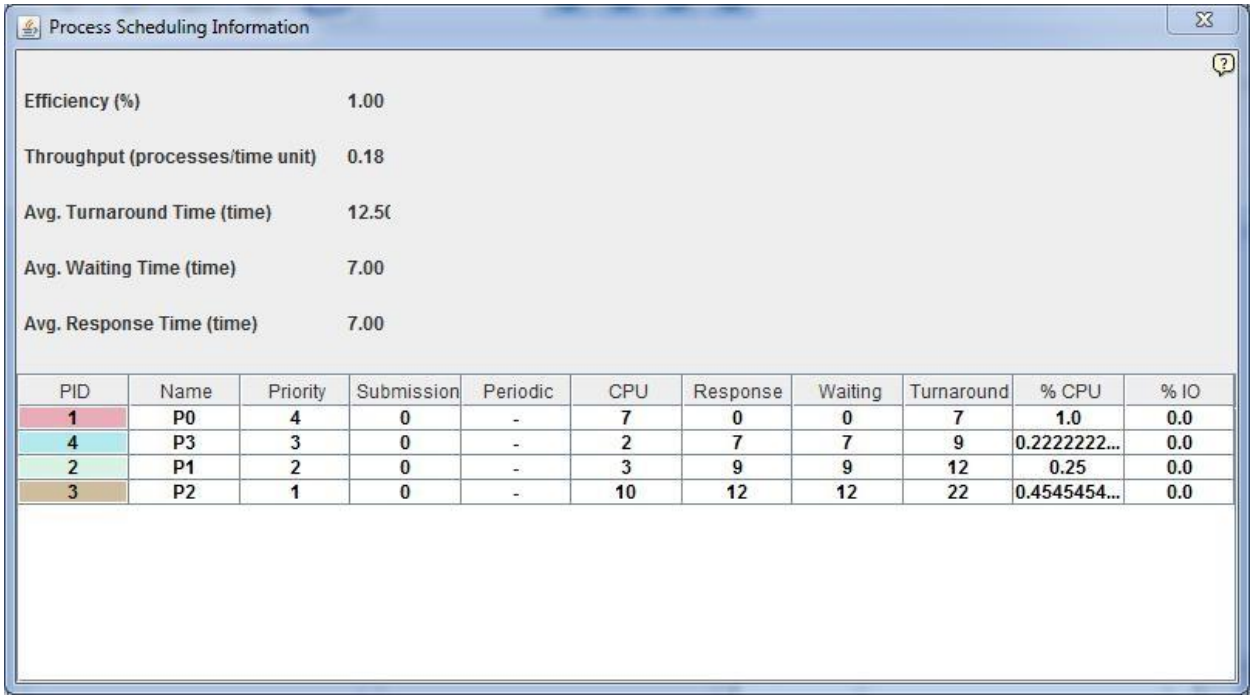

OS Sim
File Processes Memory File System Disk Help
en
Time: 0 units
Priority scheduling.
multiprogramming (nonpreemptive)
Ready Queue
PID 3
P2
prio 1
PID 2
P1
prio 2
PID 4
P3
prio 3
PID 1
P0
prio 4
CPU
I/O
Incoming processes
PID
Name
Submission
Blocked - I/O operations
PID
Name
Time left
Processor
Idle



Process	Wait time
P0	5
P1	2
P2	12
P3	0
Avg. waiting time	4.75
Avg. Turnaround	10.25
Avg. Response	4.75

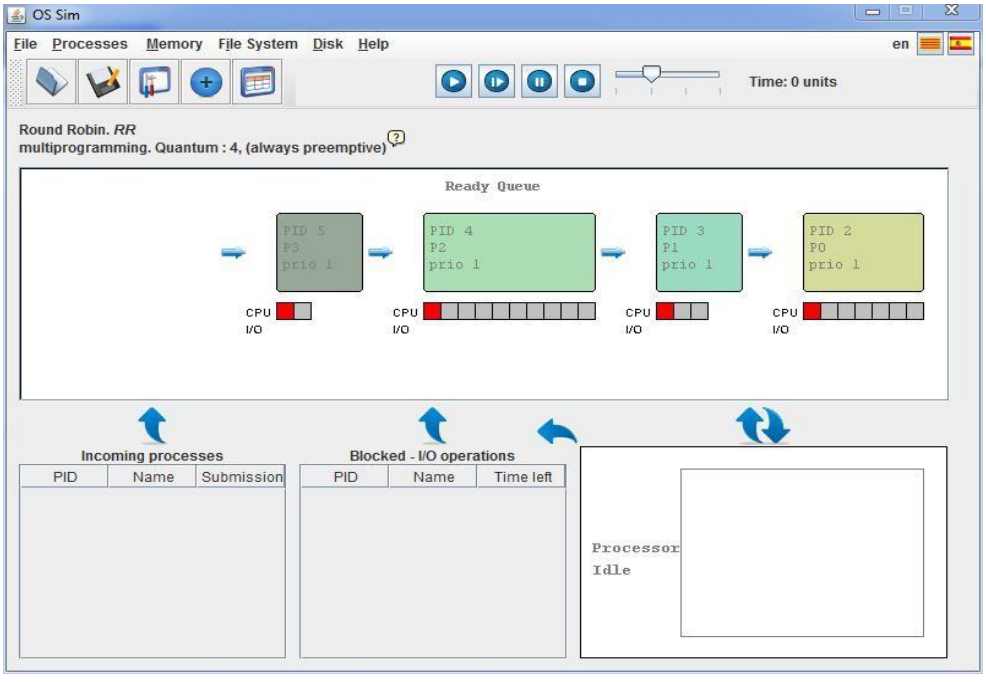
3. Priority scheduling

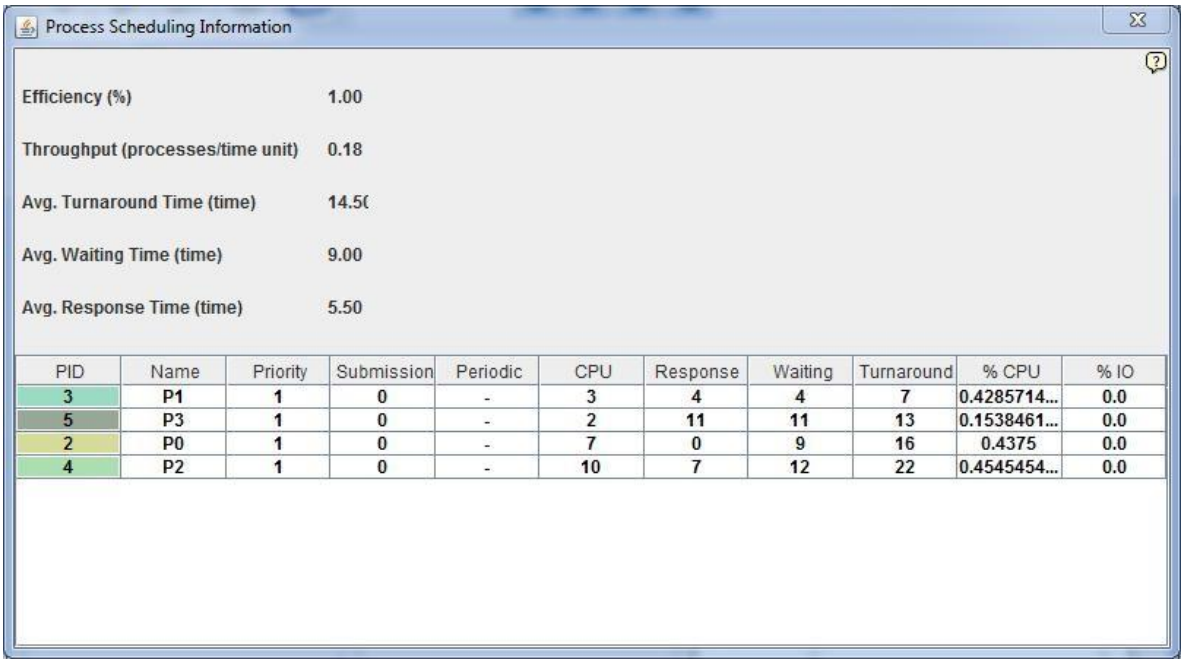




Process	Wait time
P0	0
P1	9
P2	12
P3	7
Avg. waiting time	7.00
Avg. Turnaround	12.50
Avg. Response	7.00

4. Round robin (Quantum = 4)





Process	Wait time
P0	9
P1	4
P2	12
P3	11
Avg. waiting time	9.00
Avg. Turnaround	14.50
Avg. Response	5.50