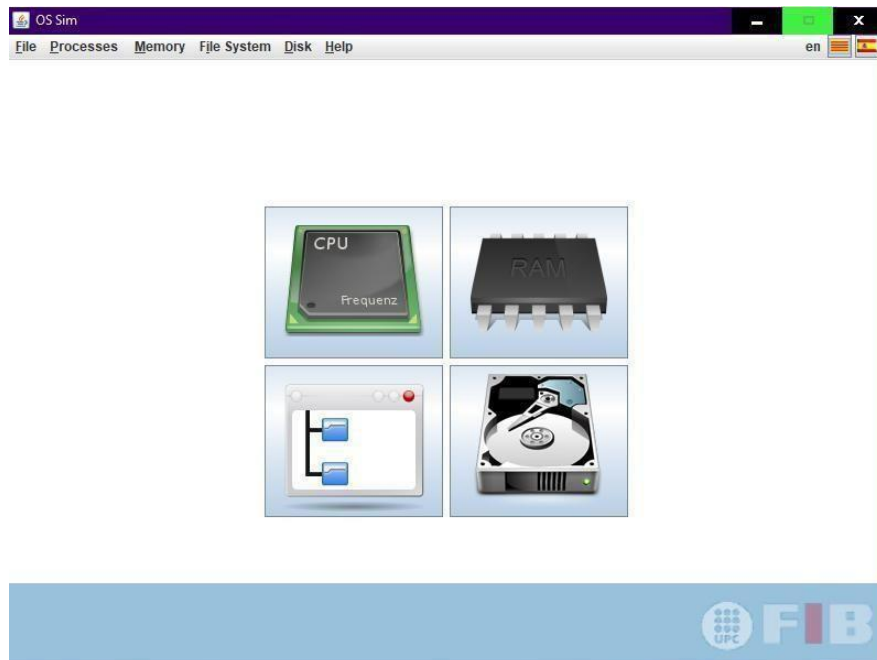


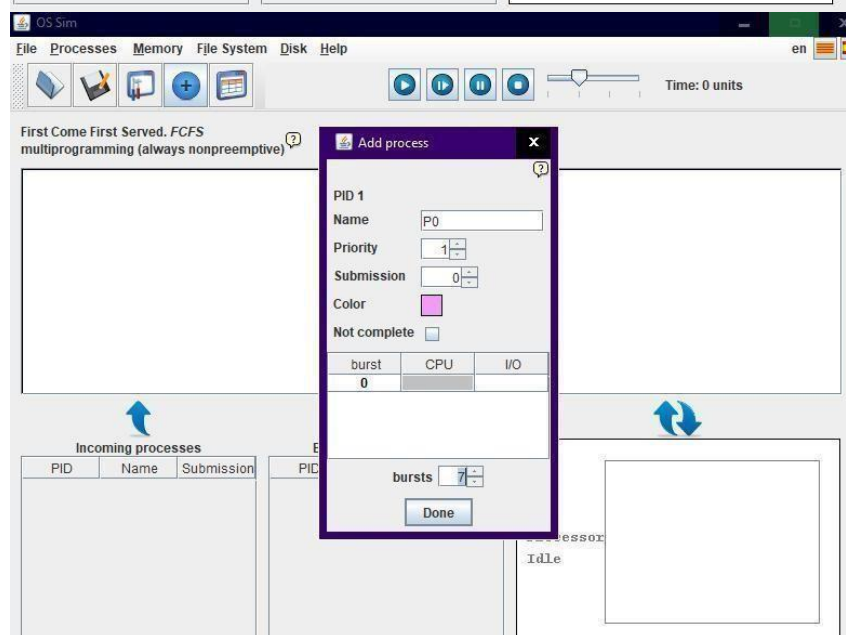
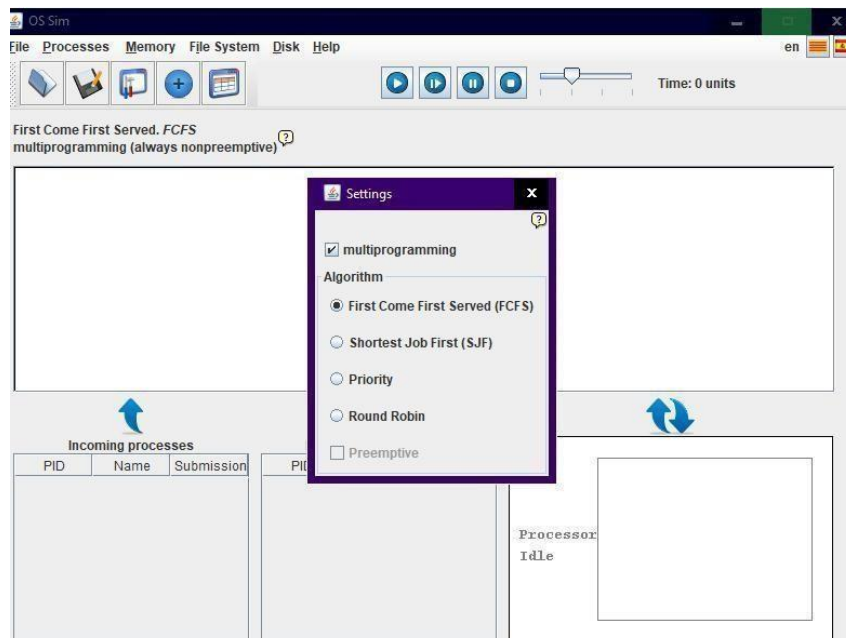
Nama : Chandika Aulia Chandra S
NIM : L200180097
Kelas : C

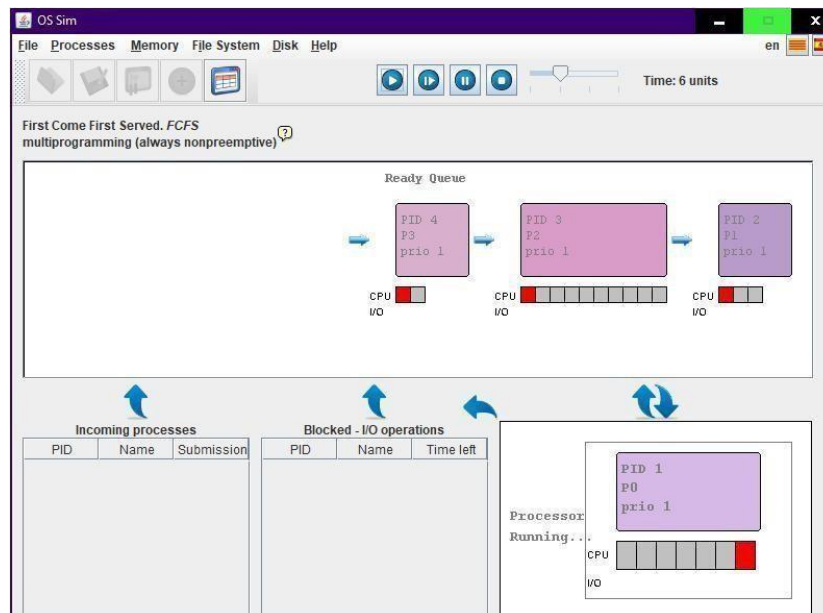
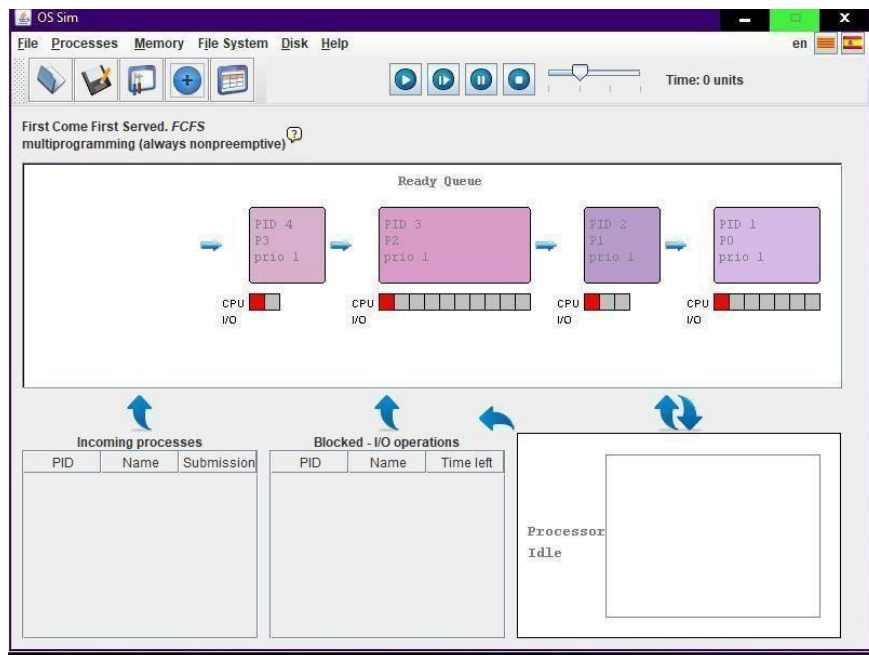
MODUL 11

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







Process Scheduling Information

Efficiency (%) 1.00

Throughput (processes/time unit) 0.18

Avg. Turnaround Time (time) 14.75

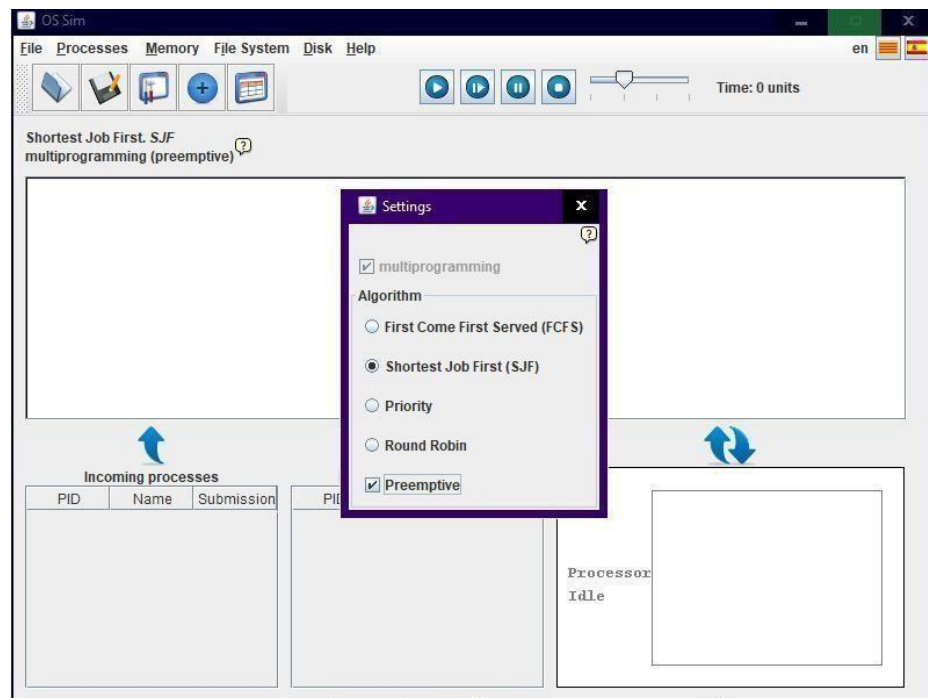
Avg. Waiting Time (time) 9.25

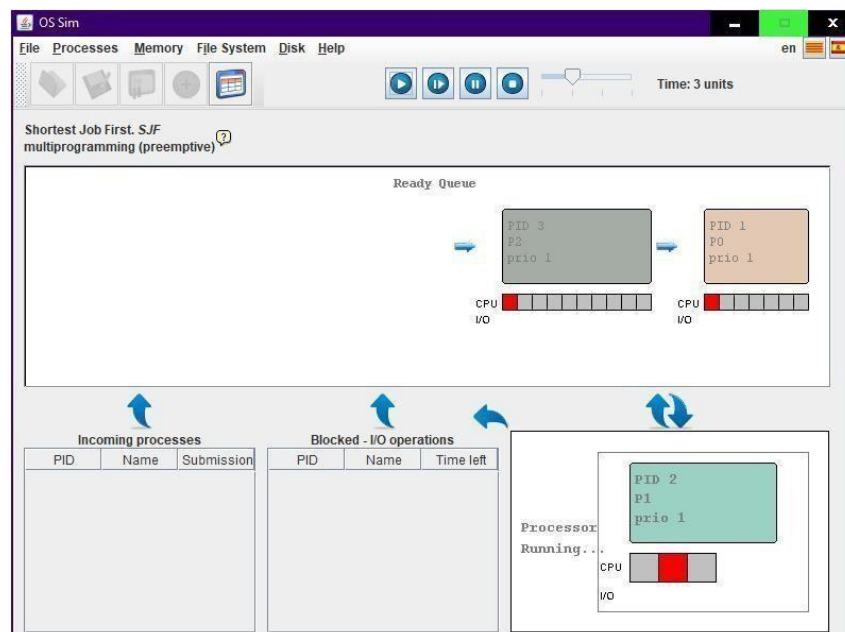
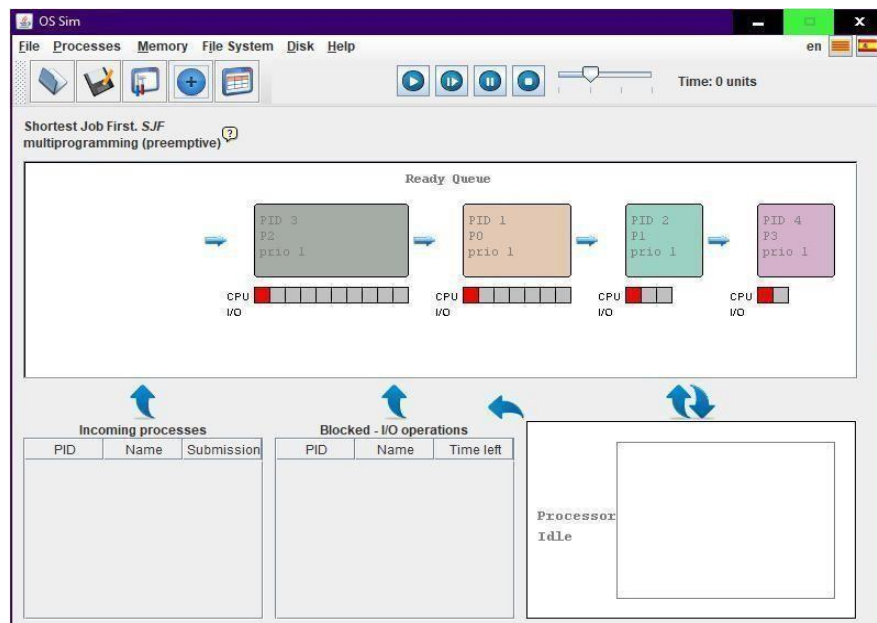
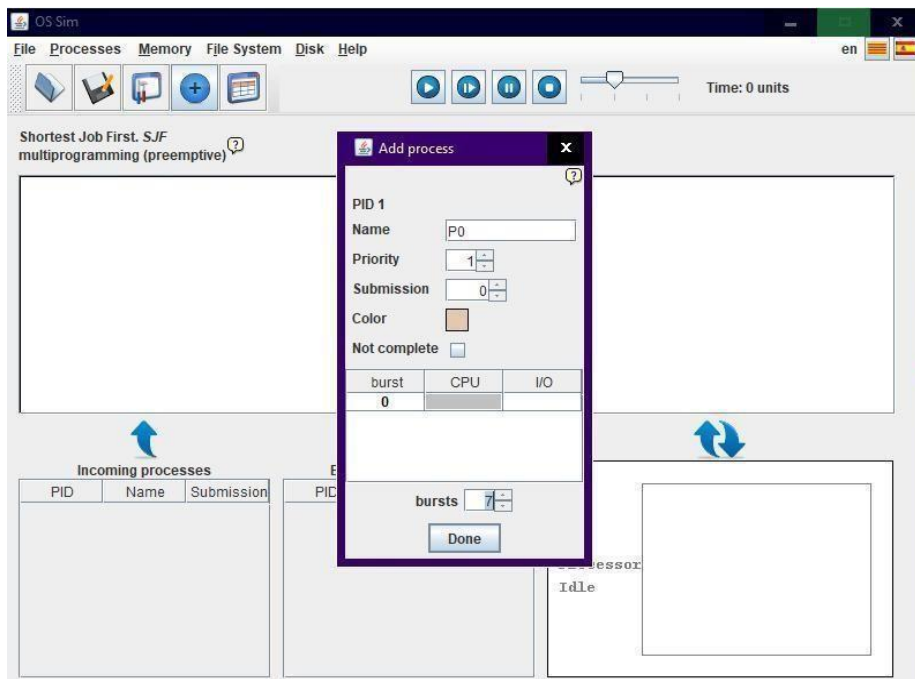
Avg. Response Time (time) 9.25

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	0.0909090...	0.0

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

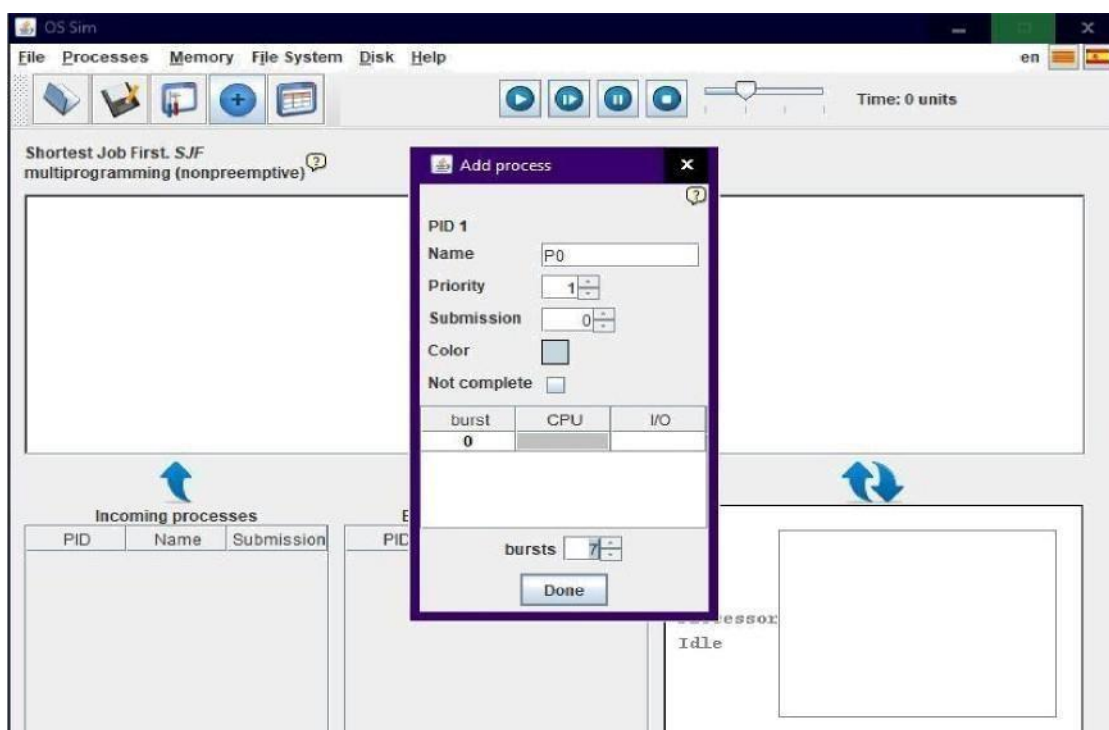
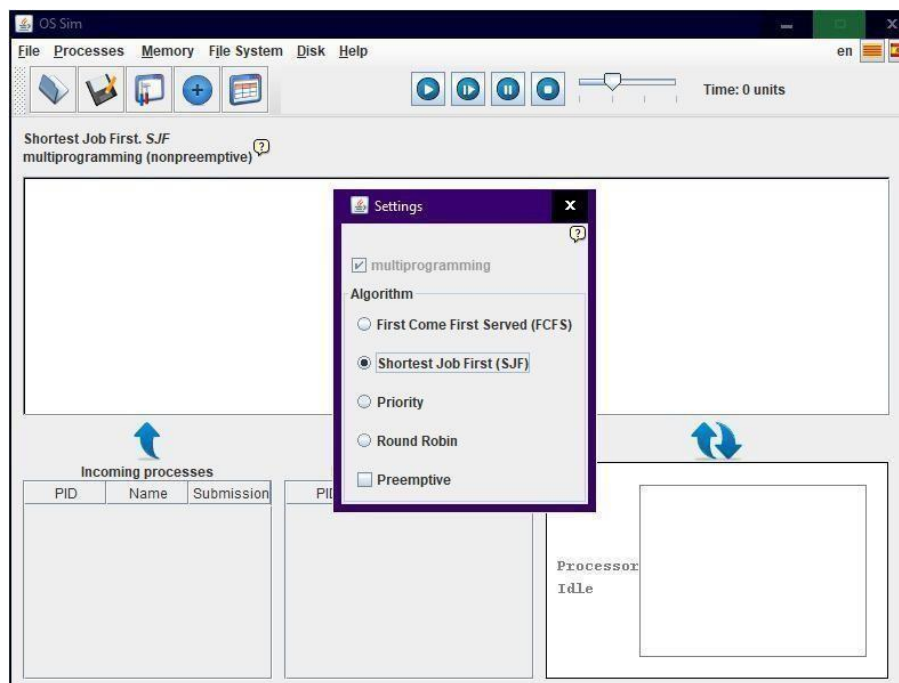


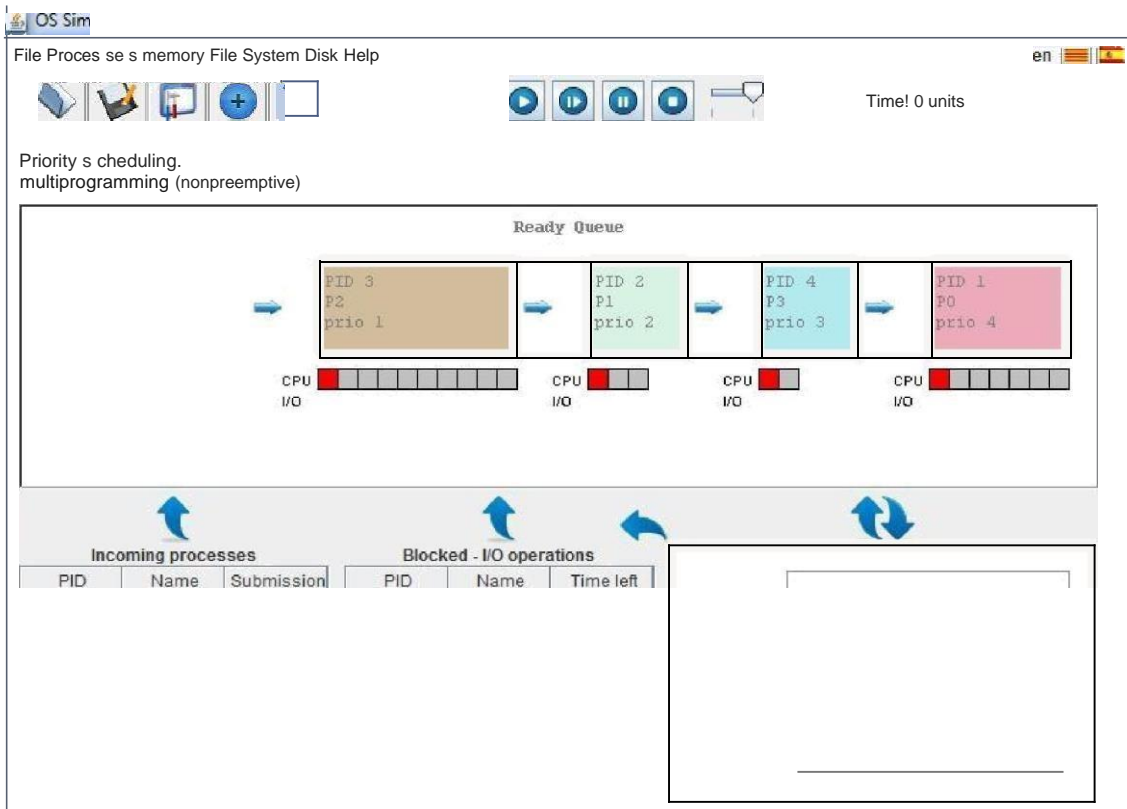


Process Scheduling Information										
<div> <div>Efficiency (%)</div> <div>1.00</div> </div> <div> <div>Throughput (processes/time unit)</div> <div>0.18</div> </div> <div> <div>Avg. Turnaround Time (time)</div> <div>10.25</div> </div> <div> <div>Avg. Waiting Time (time)</div> <div>4.75</div> </div> <div> <div>Avg. Response Time (time)</div> <div>4.75</div> </div>										
PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% IO
4	P3	1	0	-	2	0	0	2	1.0	0.0
2	P1	1	0	-	3	2	2	5	0.6	0.0
1	P0	1	0	-	7	5	5	12	0.5833333...	0.0
3	P2	1	0	-	10	12	12	22	0.4545454...	0.0

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





Process Scheduling Information

Efficiency (%) 1.00

Throughput (processes/time unit) 0.18

Avg. Turnaround Time (time) 10.25

Avg. Waiting Time (time) 4.75

Avg. Response Time (time) 4.75

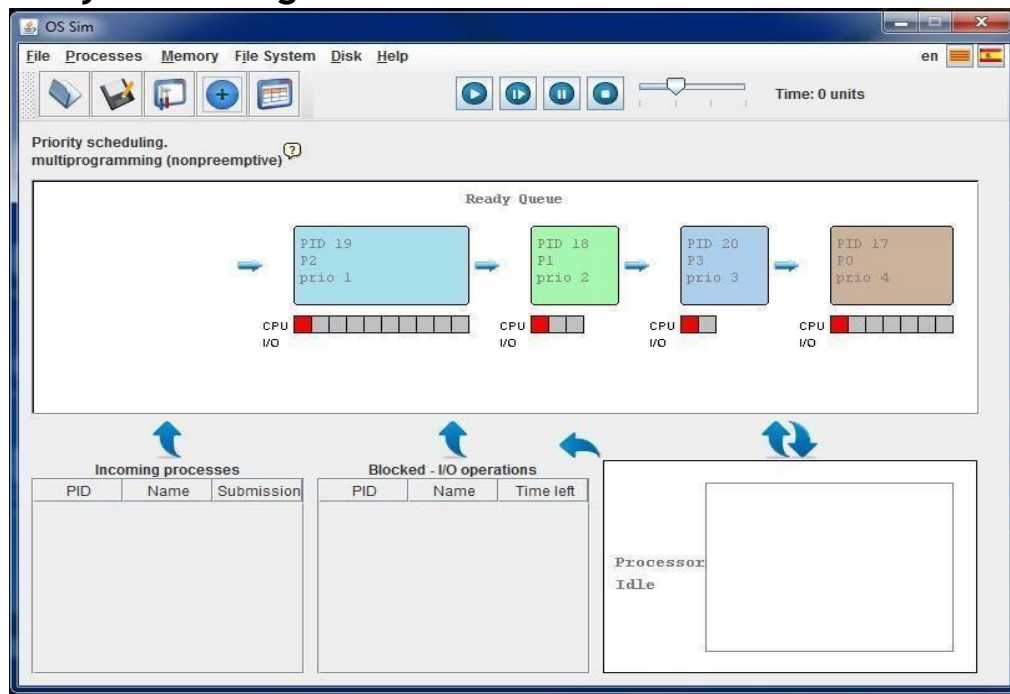
PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% IO
4	P3	1	0	-	2	0	0	2	1.0	0.0
2	P1	1	0	-	3	2	2	5	0.6	0.0
1	P0	1	0	-	7	5	5	12	0.583333...	0.0
3	P2	1	0	-	10	12	12	22	0.454545...	0.0

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

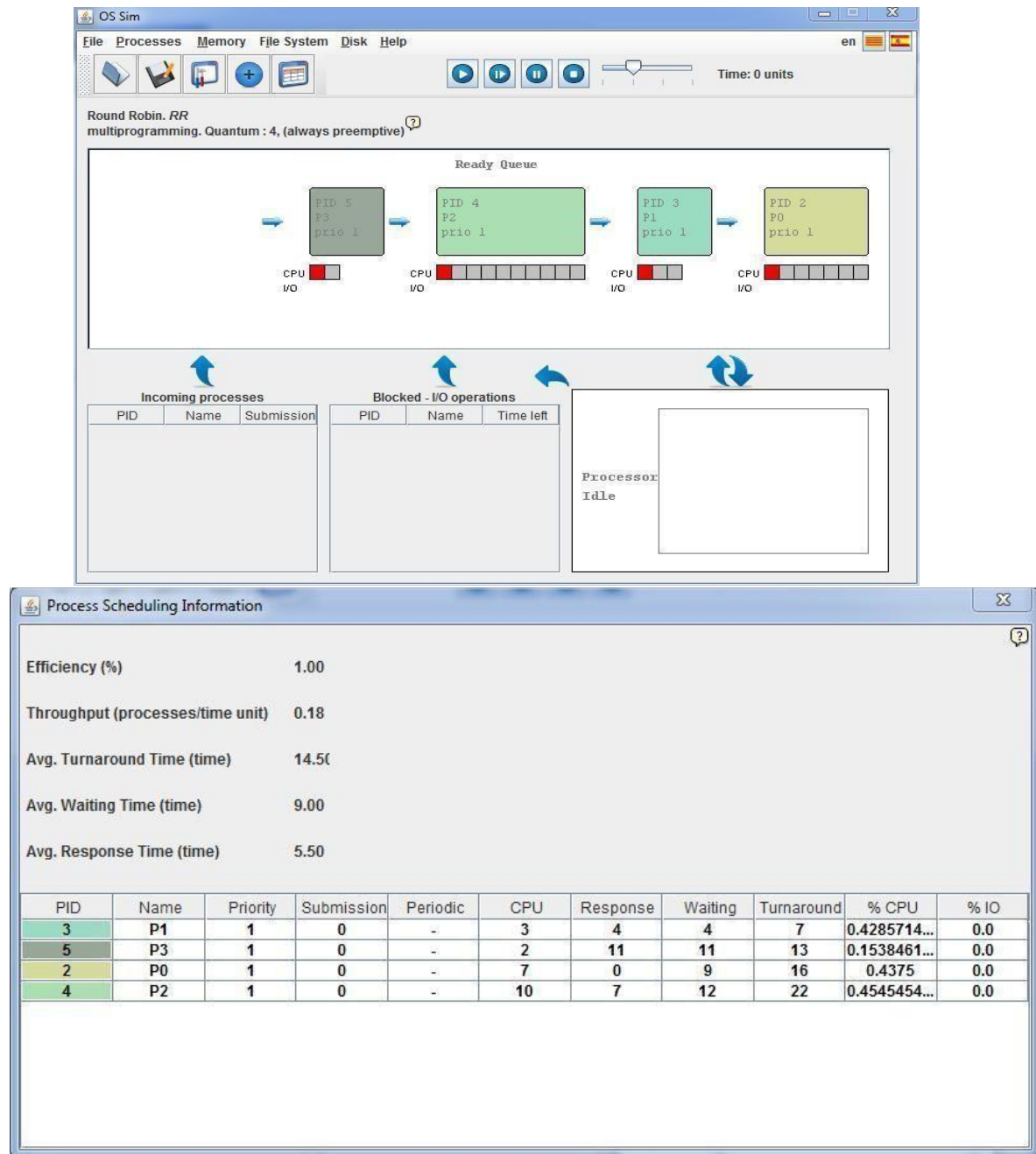


Process Scheduling Information										
Efficiency (%)										
1.00										
Throughput (processes/time unit)										
0.18										
Avg. Turnaround Time (time)										
12.50										
Avg. Waiting Time (time)										
7.00										
Avg. Response Time (time)										
7.00										
PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% IO
1	P0	4	0	-	7	0	0	7	1.0	0.0
4	P3	3	0	-	2	7	7	9	0.2222222...	0.0
2	P1	2	0	-	3	9	9	12	0.25	0.0
3	P2	1	0	-	10	12	12	22	0.4545454...	0.0

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