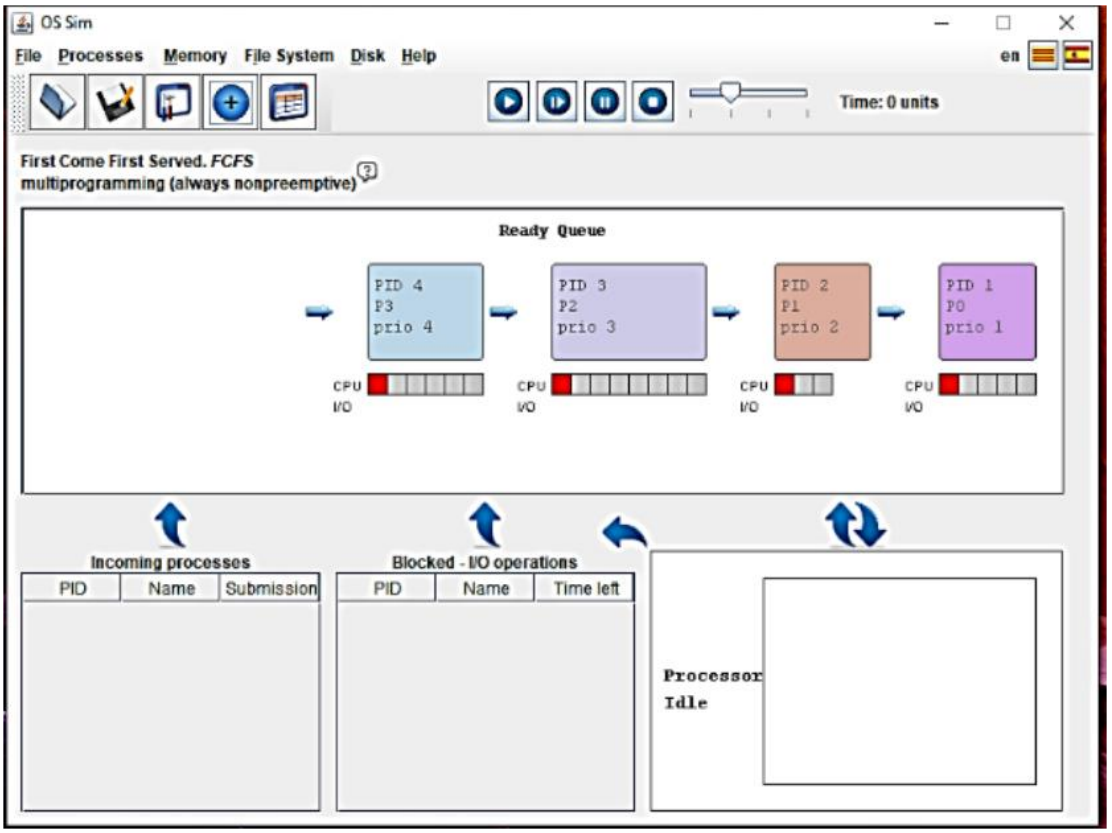
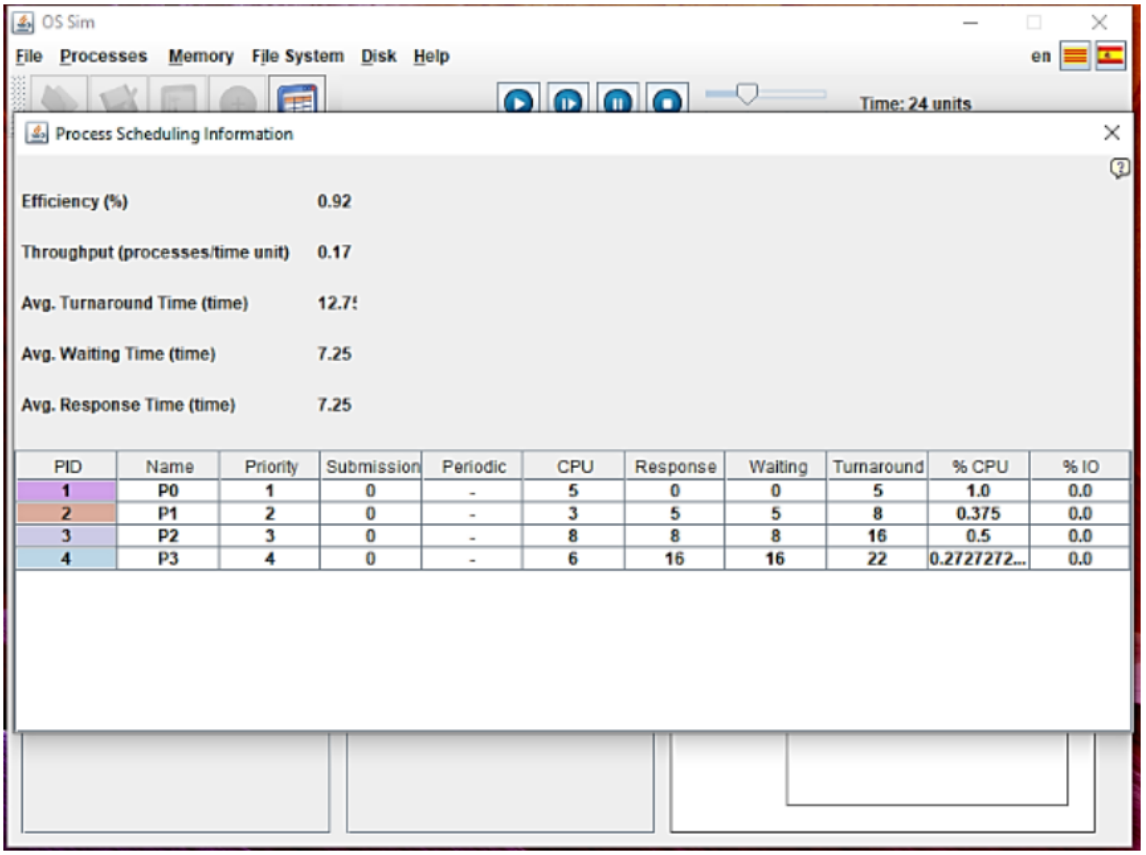
Nama : IRMAN KURNIA RAHAYU
NIM : L200180129

Modul 11

1. *FCFS*

Process	*Arrival Time*	*Burst Time*	*Service Time*
P0	*0*	*5*	*0*
P1	*1*	*3*	*5*
P2	*2*	*8*	*8*
P3	*3*	*6*	*16*



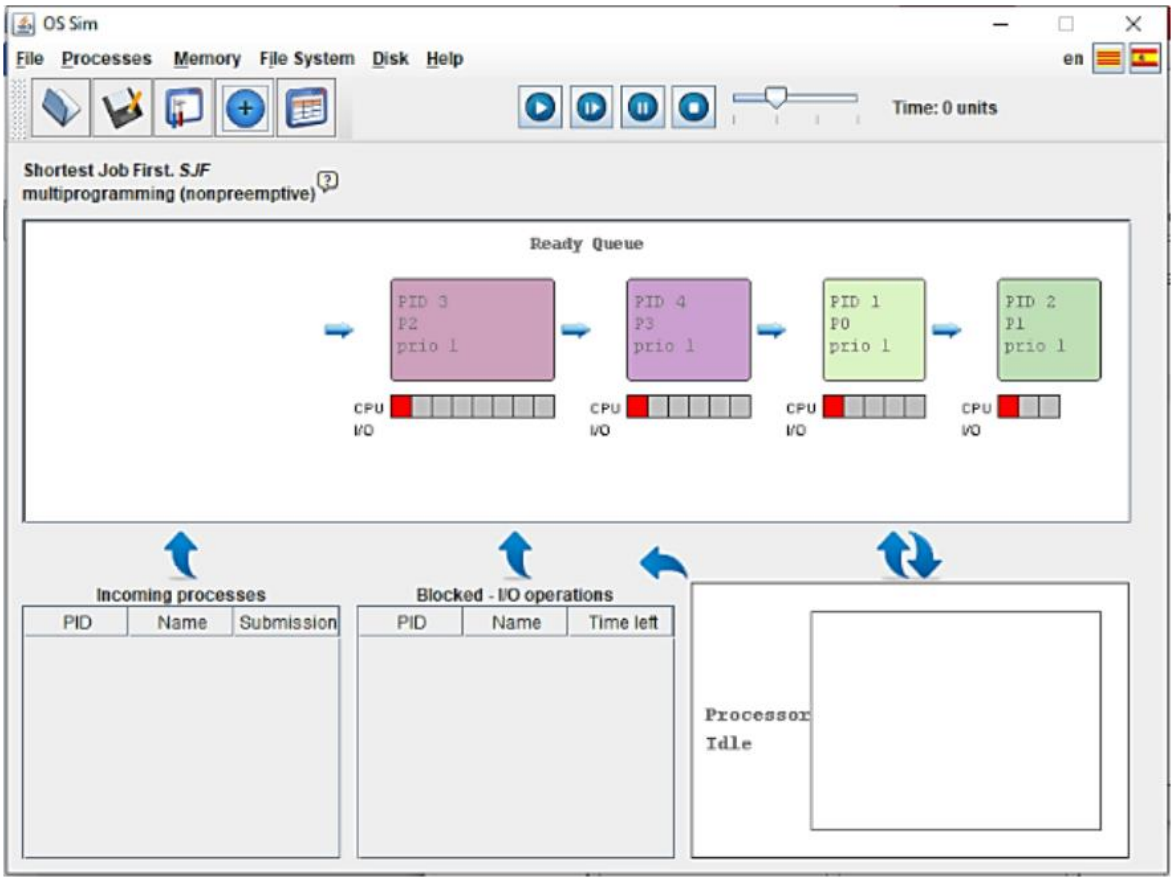


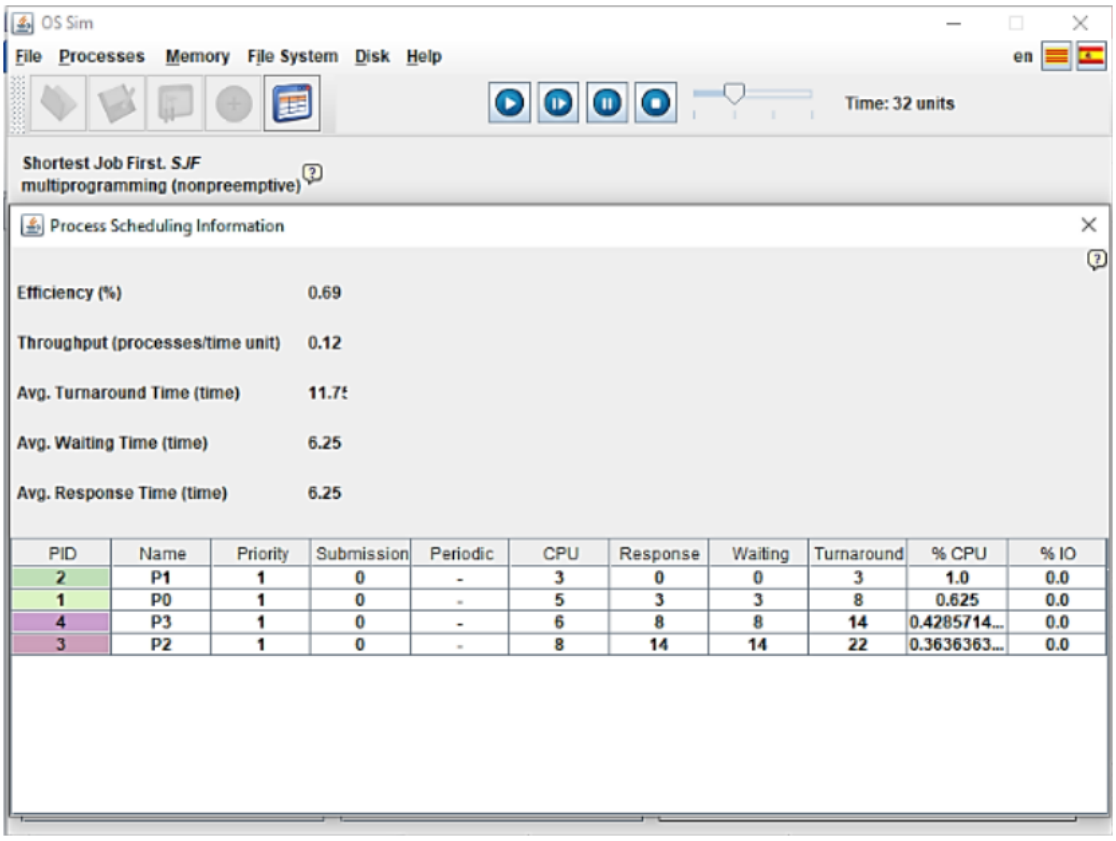
Process	*Wait Time : Service Time – Arrival Time*
P0	*0*
P1	*5*
P2	*8*
P3	*16*
Av wait time	*7.25*

2. *SJF*

Process	*Arrival Time*	*Burst Time*	*Service Time*
P0	*0*	*5*	*0*
P1	*1*	*3*	*5*
P2	*2*	*8*	*8*
P3	*3*	*6*	*16*

Non-preemptive



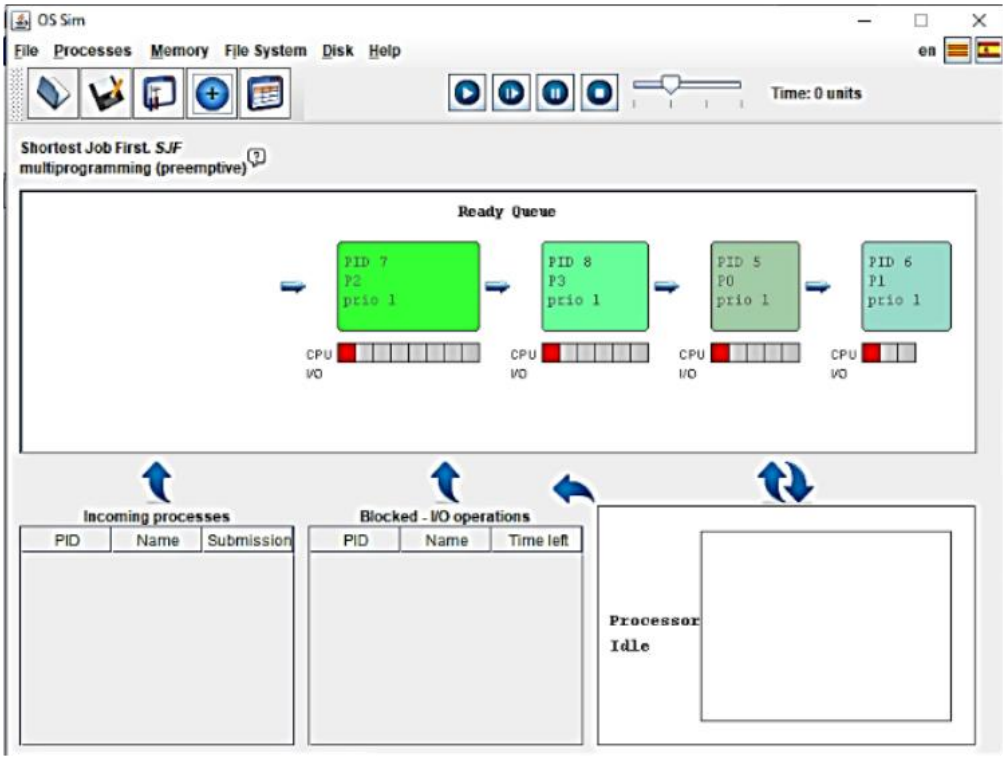


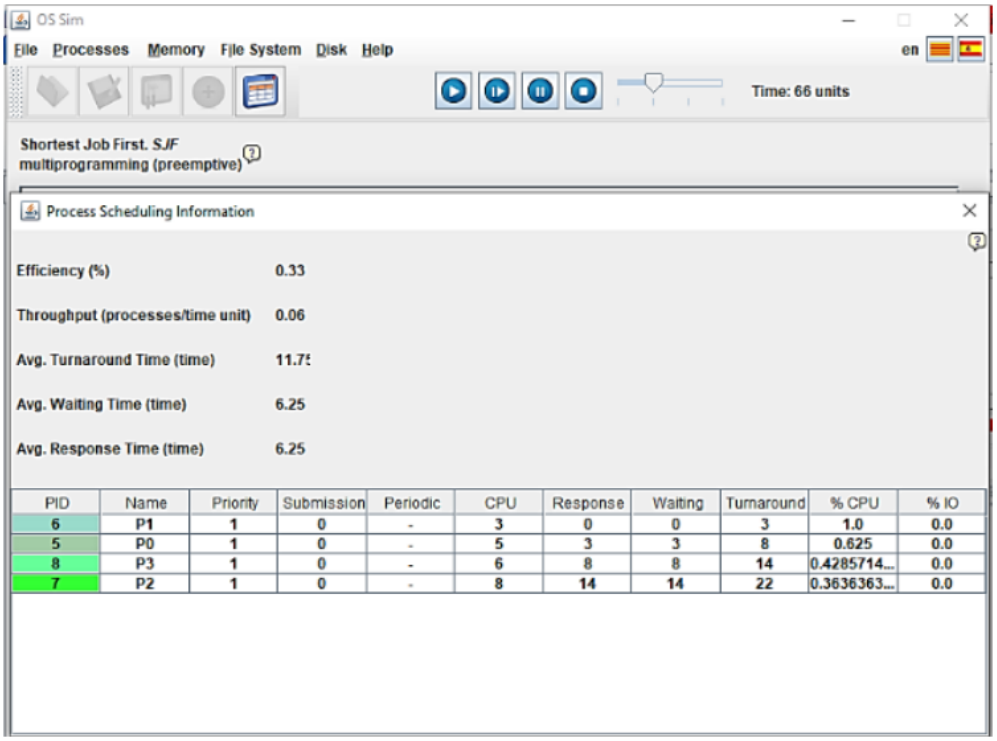
Process	*Wait Time : Service Time – Arrival Time*
P0	*3*
P1	*0*
P2	*14*
P3	*8*
Av wait time	*6.25*

Preemptive

Process	*Arrival Time*	*Burst Time*	*Service Time*
P0	*0*	*5*	*0*
P1	*1*	*3*	*5*
P2	*2*	*8*	*8*

P3	*3*	*6*	*16*



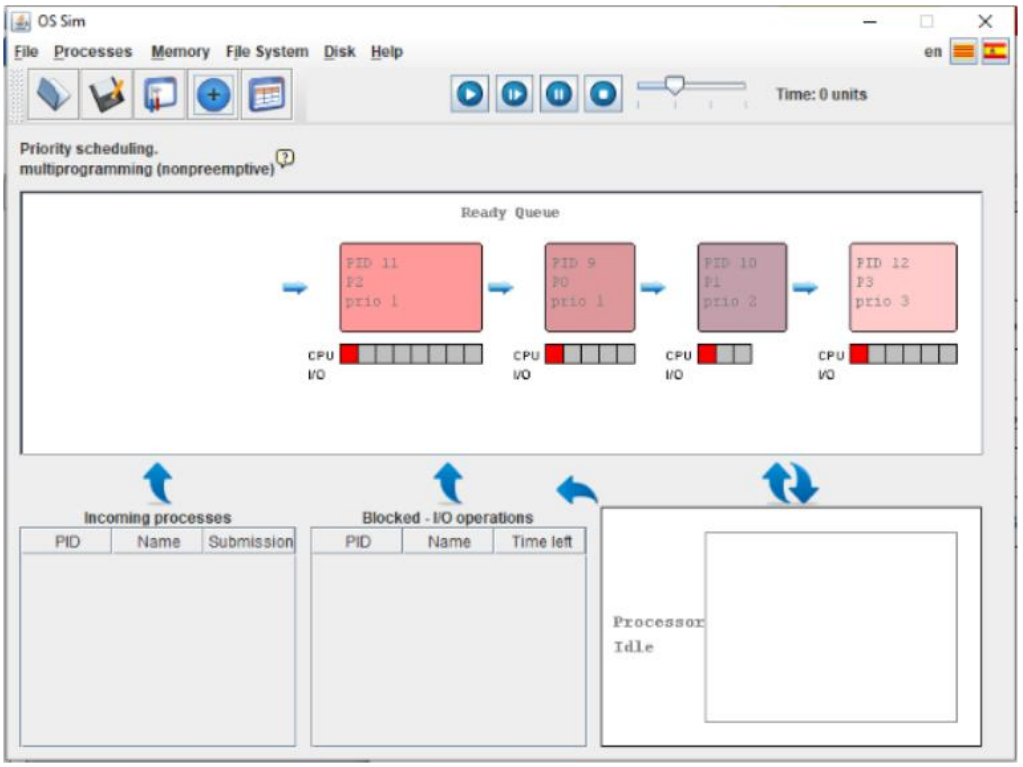


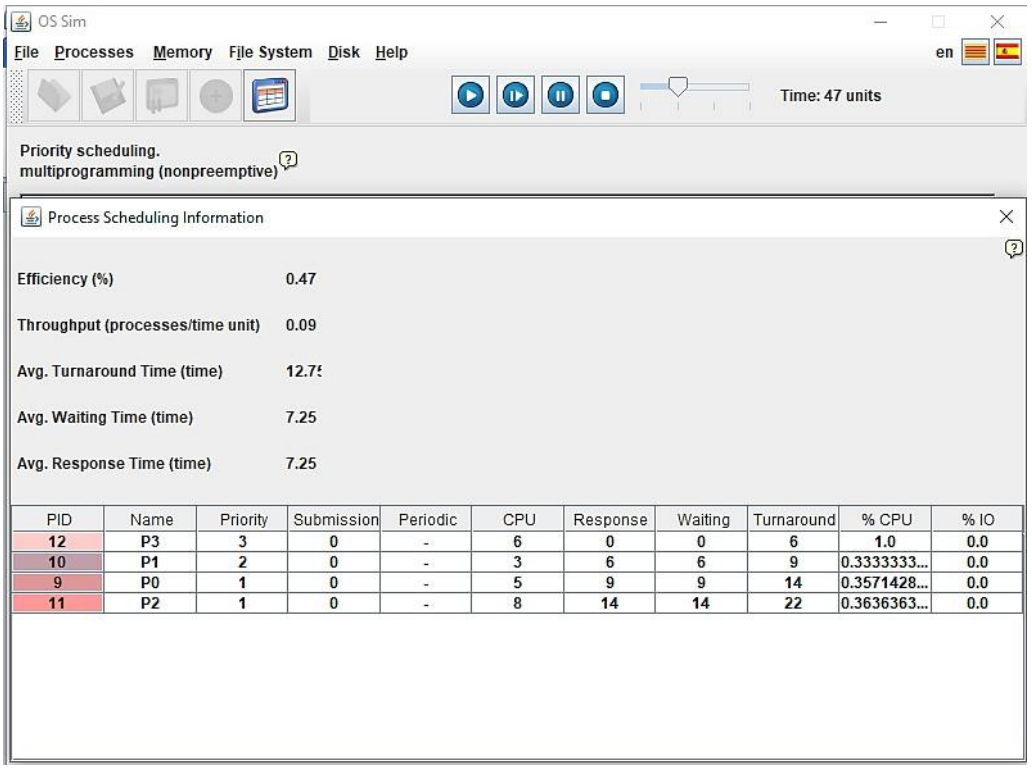
PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% IO
6	P1	1	0	-	3	0	0	3	1.0	0.0
5	P0	1	0	-	5	3	3	8	0.625	0.0
8	P3	1	0	-	6	8	8	14	0.4285714...	0.0
7	P2	1	0	-	8	14	14	22	0.3636363...	0.0

Process	Wait Time : Service Time – Arrival Time
P0	3
P1	0
P2	14
P3	8
Av wait time	6.25

3. Priority

Process	Arrival Time	Burst Time	Priority	Service Time
P0	0	5	1	0
P1	1	3	2	11
P2	2	8	1	14
P3	3	6	3	5



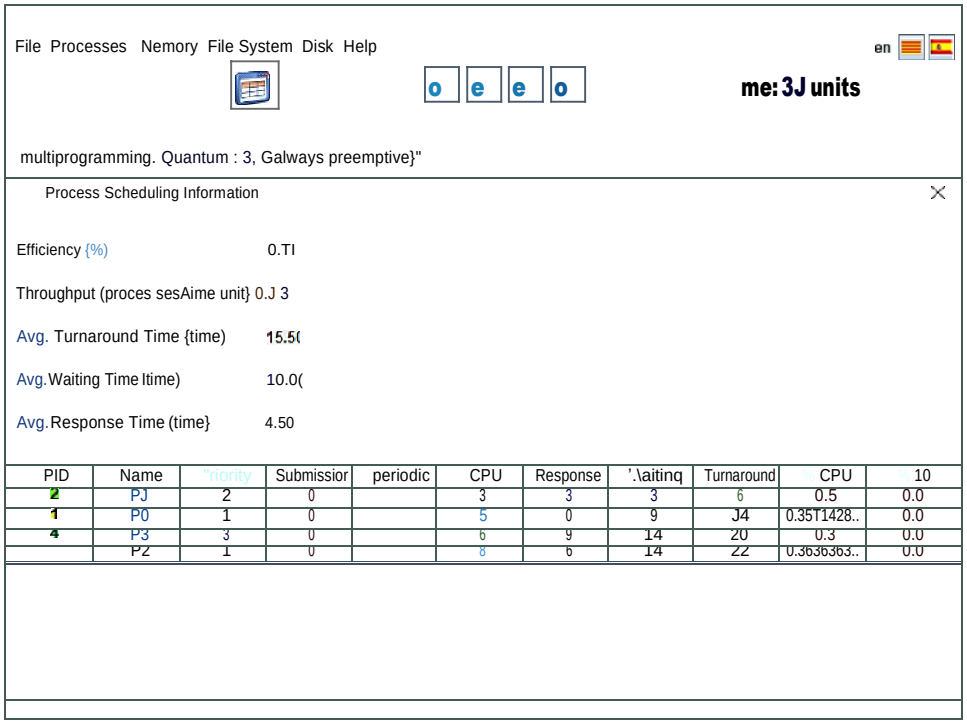


Process	*Wait Time : Service Time – Arrival Time*
P0	*9*
P1	*6*
P2	*14*
P3	*0*
Av wait time	*7.25*

4. *Round Robin (quantum time = 3)*

Process	*Arrival Time*	*Burst Time*	*Priority*	*Service Time*
P0	*0*	*5*	*1*	*0*
P1	*1*	*3*	*2*	*11*
P2	*2*	*8*	*1*	*14*
P3	*3*	*6*	*3*	*5*

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


File Processes Nemory File System Disk Help
en
me: 3J units
multiprogramming. Quantum : 3, Galways preemptive}"
Process Scheduling Information
Efficiency {%} 0.TI
Throughput (proces sesAime unit} 0.J 3
Avg. Turnaround Time {time) 15.5(
Avg.Waiting Time Itime) 10.0(
Avg.Response Time (time} 4.50
PID
Name
"riority
Submissior
periodic
CPU
Response
'.\aitinq
Turnaround
CPU
10
PJ 2 0 3 3 3 6 0.5 0.0
P0 1 0 5 0 9 J4 0.35T1428.. 0.0
P3 3 0 6 9 14 20 0.3 0.0
P2 1 0 8 6 14 22 0.3636363.. 0.0

Process	Wait Time : Service Time – Arrival Time
P0	9
P1	3
P2	14
P3	14
Av wait time	10