

Nama : Karina Muslimah

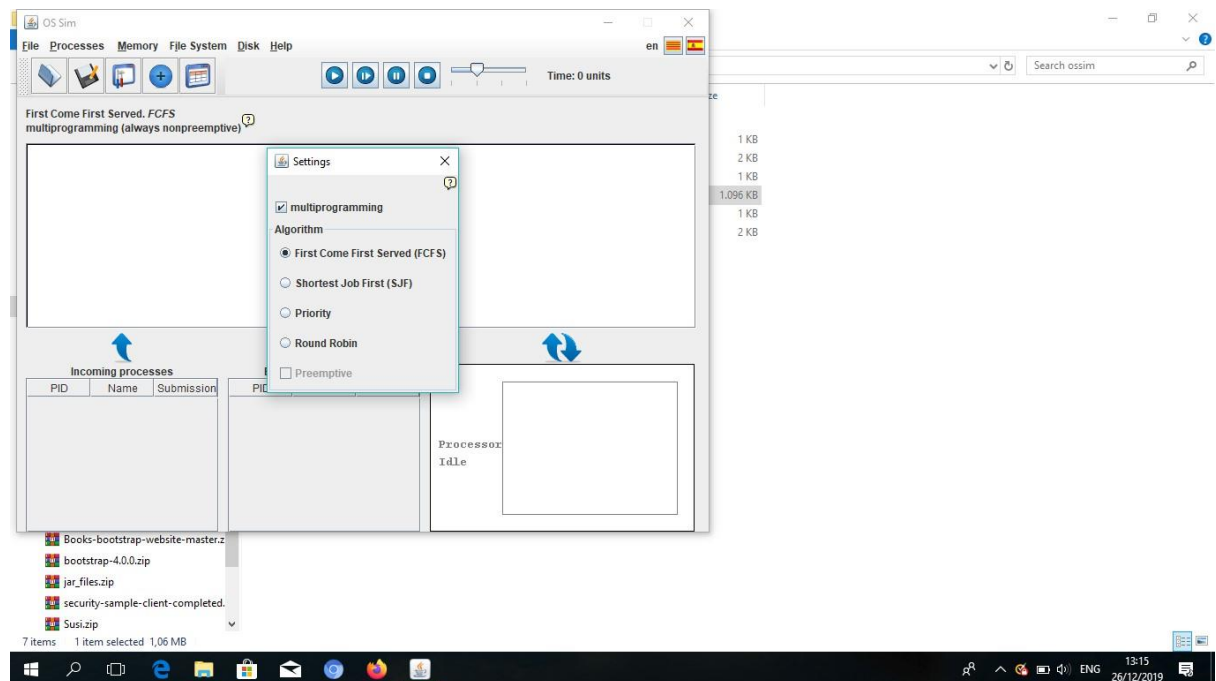
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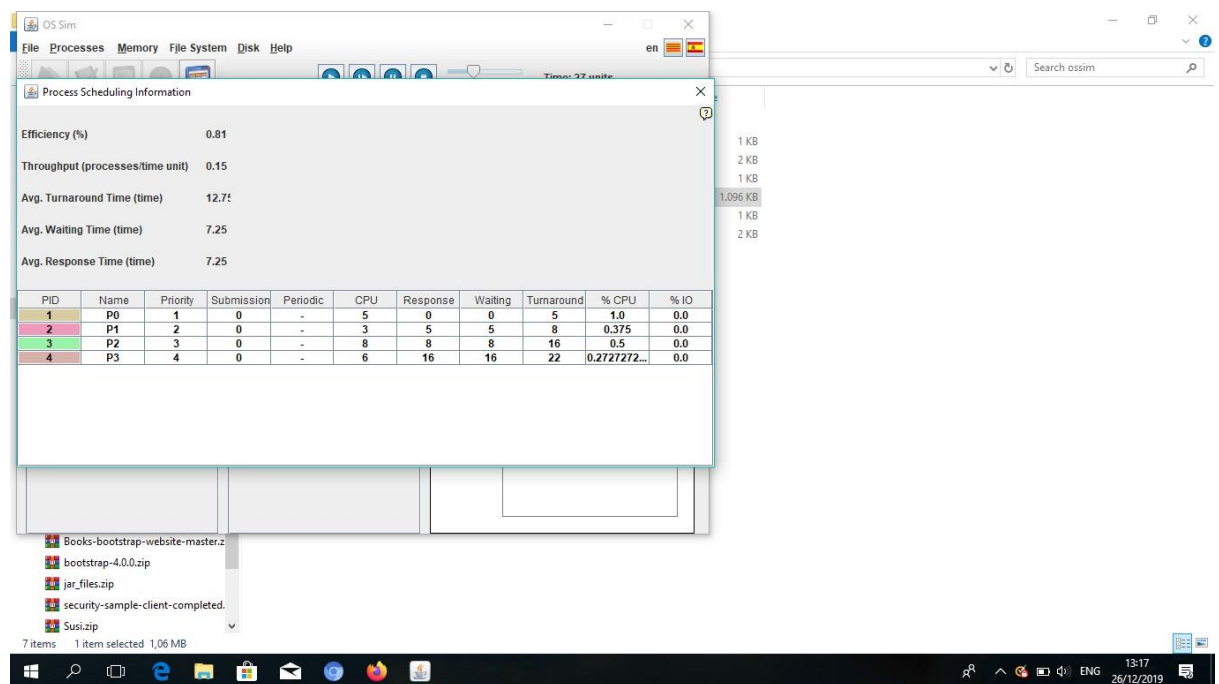
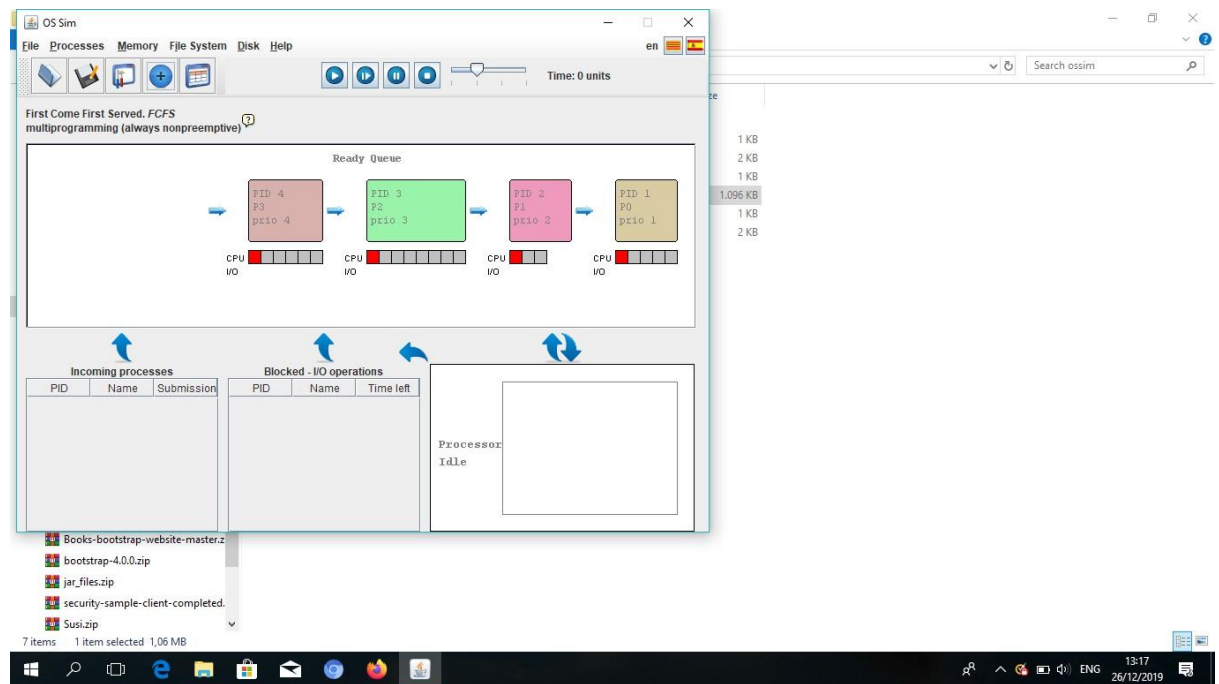
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1. FCFS

Process	Arrival time	Burst time	Service time
P0	0	5	0
P1	1	3	5
P2	2	8	8
P3	3	6	6





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

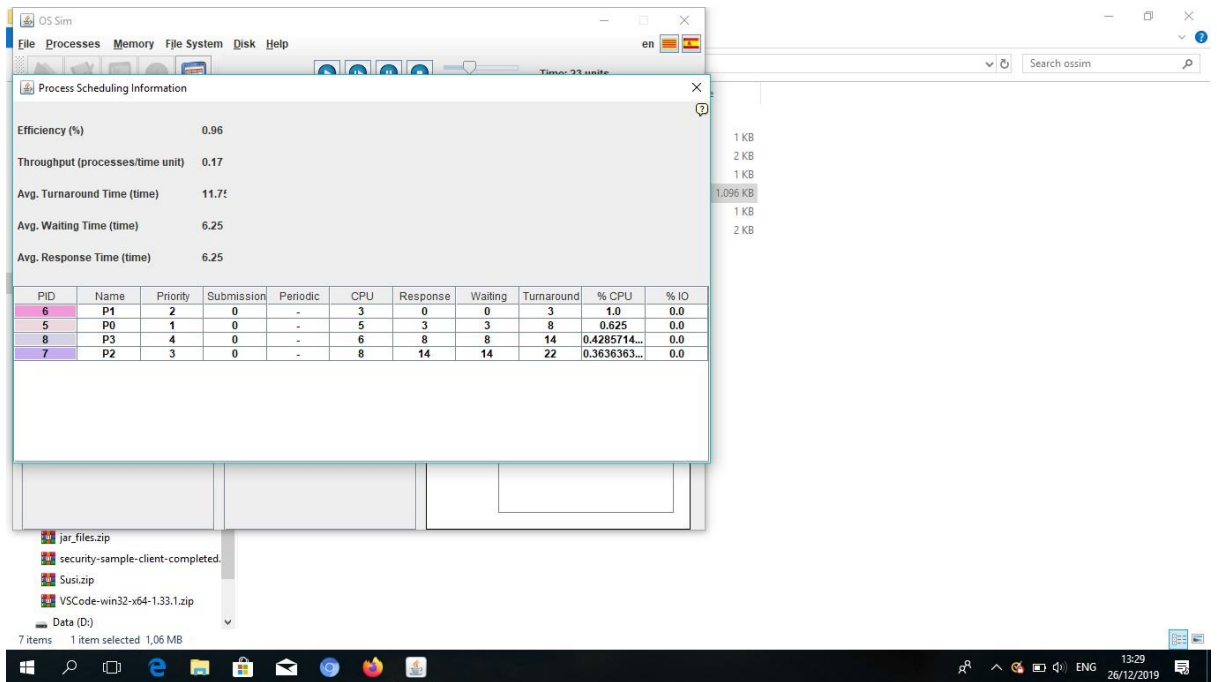
2. SJFS

Process	Arrival time	Burst time	Service time
P0	0	5	0
P1	1	3	5
P2	2	8	8
P3	3	6	6

a. Preemptive

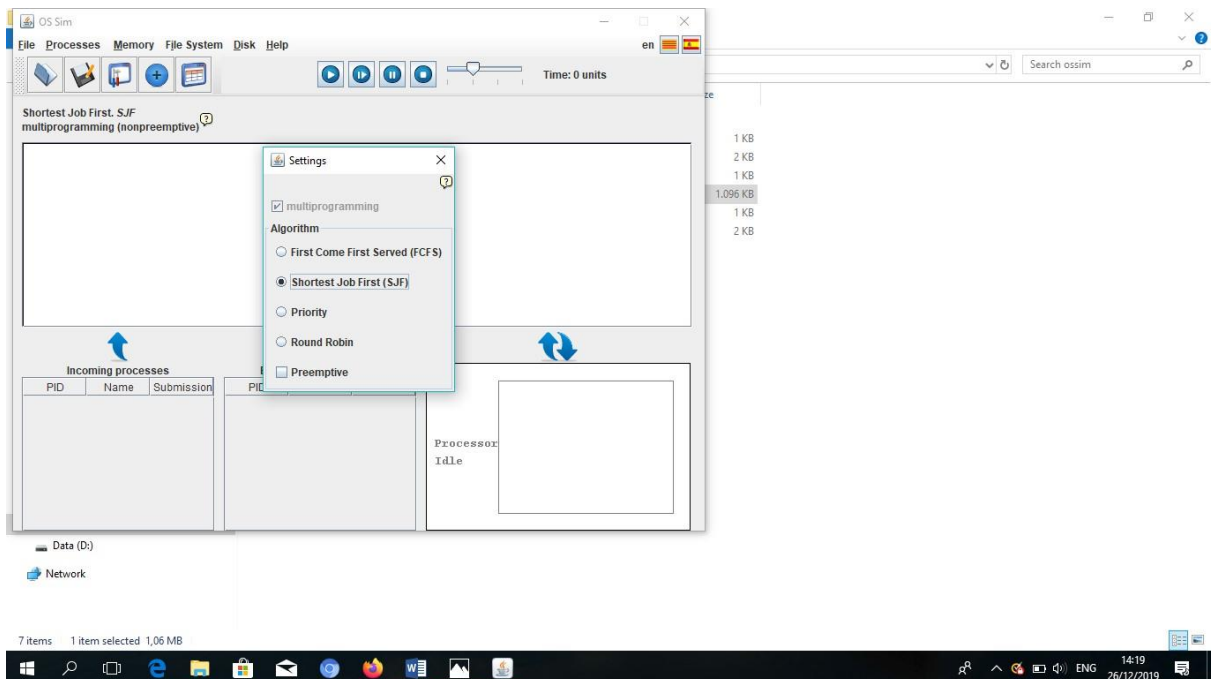
The first screenshot shows the OS Sim application window with the 'Settings' dialog box open. The 'Algorithm' section is set to 'Shortest Job First (SJF)' and the 'Preemptive' checkbox is checked. The 'Incoming processes' table is empty, and the 'Processor' is 'Idle'.

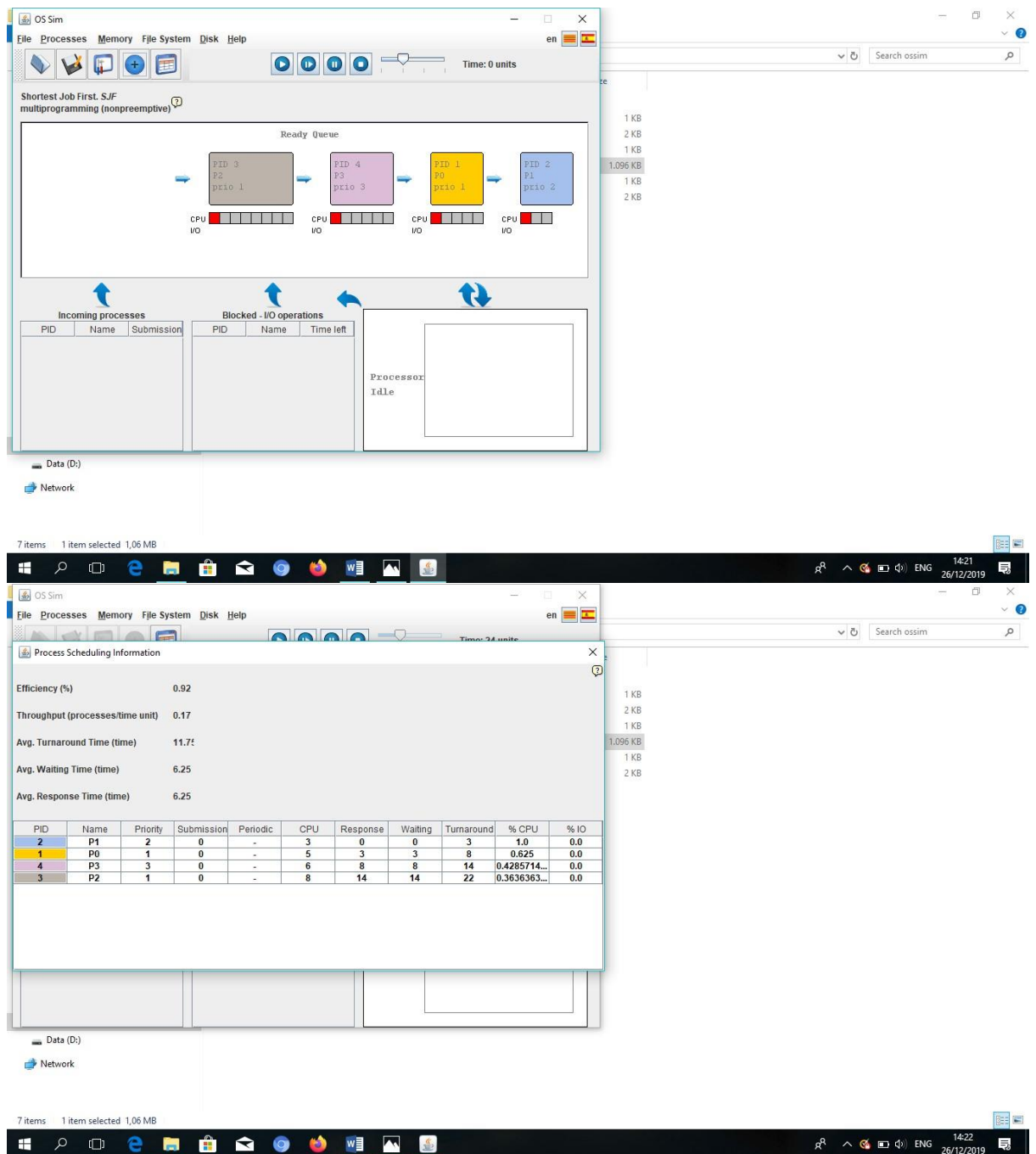
The second screenshot shows the OS Sim application window after the simulation has started. The 'Ready Queue' is populated with four processes: P2 (PID 7, prio 3), P3 (PID 8, prio 4), P0 (PID 5, prio 1), and P1 (PID 6, prio 2). The 'Incoming processes' table is empty, and the 'Blocked - I/O operations' table is also empty. The 'Processor' is 'Idle'.



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

b. Non preemptive





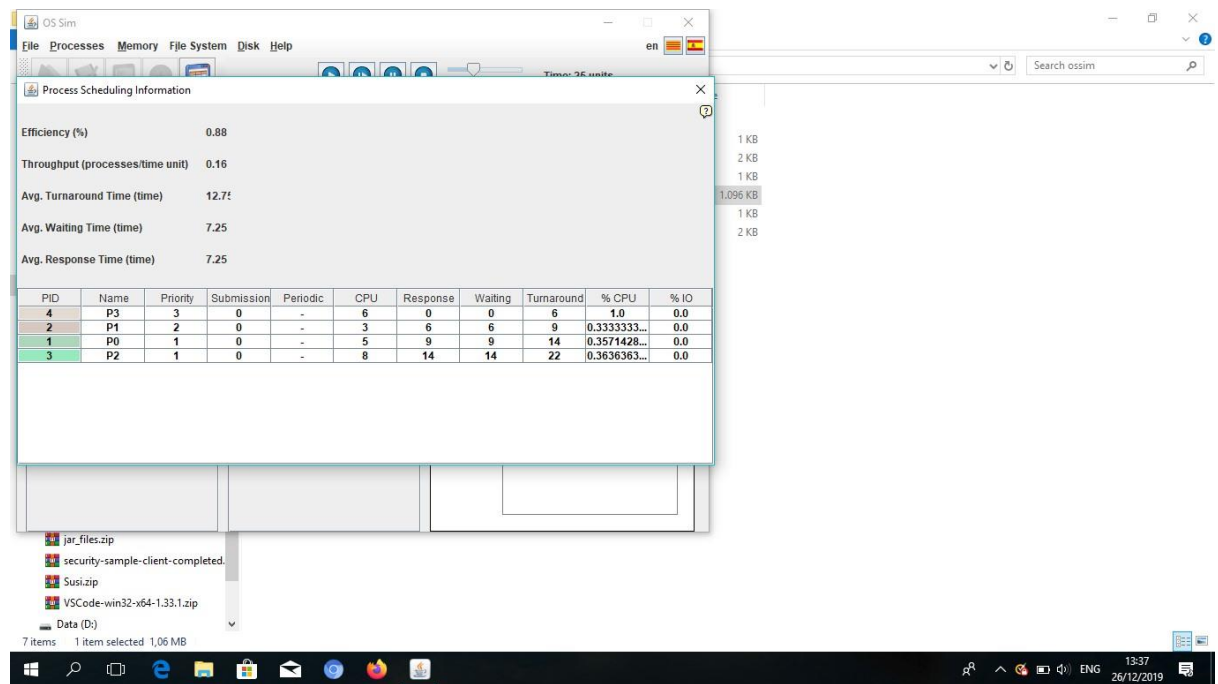
Process	Wait time : Service Time – Arrival Time
P0	3
P1	0
P2	14
P3	8
Av wait time	6.25

3. Priority Scheduling

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

The top screenshot shows the OS Sim application interface. The 'Settings' dialog is open, displaying the 'Priority' scheduling algorithm selected. The 'Ready Queue' is empty, and the 'Incoming processes' table is also empty. The 'Processor' is shown as 'Idle'.

The bottom screenshot shows the OS Sim application interface after some time has passed. The 'Ready Queue' now contains four processes: P2 (PID 3, Prio 1), P0 (PID 1, Prio 1), P1 (PID 2, Prio 2), and P3 (PID 4, Prio 3). The 'Incoming processes' table is empty, and the 'Blocked - I/O operations' table is also empty. The 'Processor' is shown as 'Idle'.



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

4. Rown Robbin (Quantum = 3)

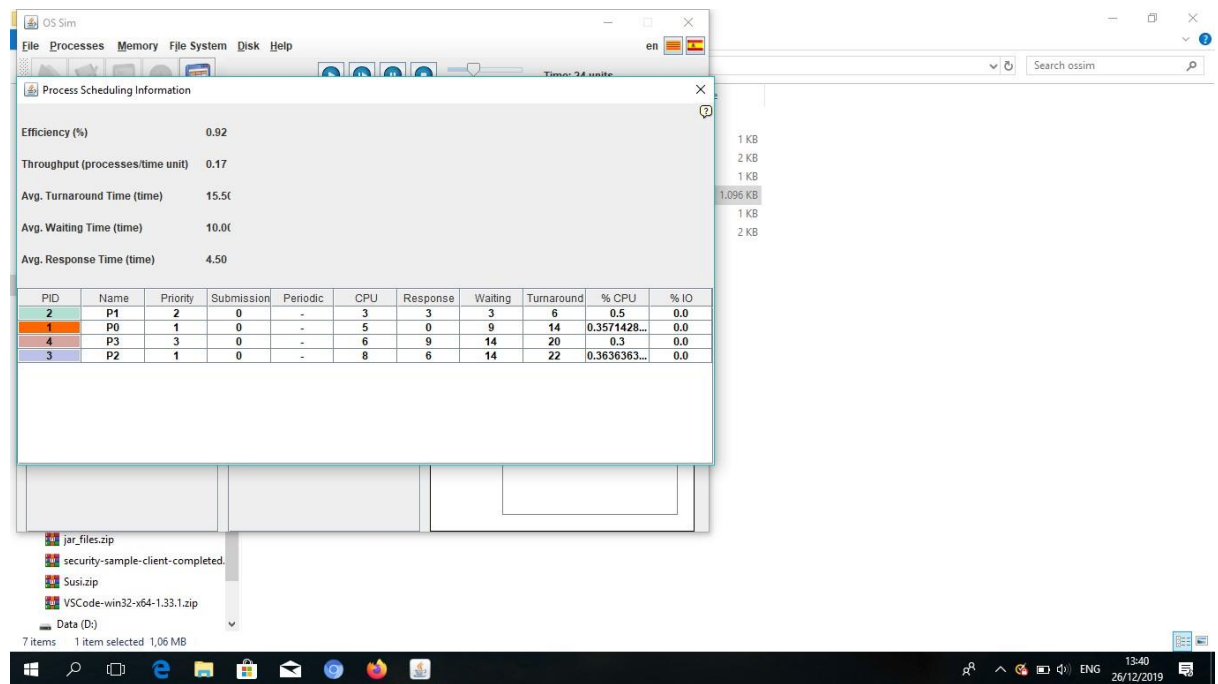
Process	Arrival time	Brust time	Priority	Service time
P0	0	5	1	0
P1	1	3	2	11
P2	2	8	1	14

P3	3	6	3	5
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The image displays two screenshots of the 'OS Sim' application, which simulates an operating system kernel.

Top Screenshot: The 'Settings' dialog box is open, showing the 'Round Robin' scheduling algorithm selected. The 'multitasking' checkbox is checked, and the 'quantum' is set to 3. The 'Preemptive' checkbox is also checked. The 'Algorithm' section shows 'First Come First Served (FCFS)', 'Shortest Job First (SJF)', and 'Priority' as options. The 'Incoming processes' table is empty. The 'Processor' is shown as 'Idle'.

Bottom Screenshot: The 'Ready Queue' is shown with four processes: PID 4 (P3, prio 3), PID 3 (P2, prio 1), PID 2 (P1, prio 2), and PID 1 (P0, prio 0). Each process has a 'CPU I/O' bar. The 'Incoming processes' table is empty. The 'Blocked - I/O operations' table is empty. The 'Processor' is shown as 'Idle'.



Process	Wait time : Service Time – Arrival Time
P0	9
P1	3
P2	14
P3	14
Av wait time	10.0