

الرقم الجامعي: AD0039

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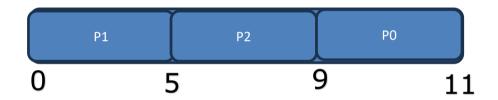
Operating system

CPU Scheduling_Homework#1

Q.1. Consider the following set of processes:

Process ID	Arrival Time	CPU Burst Time		
P ₀	2	2		
P ₁	0	5		
P ₂	1	4		

a) Draw Gantt charts illustrating the execution of these processes using FCFS



b) Based on your work above, fill in the table below giving both the **waiting time** (Wait) and turnaround time (tat) for each process:

Scheduling Algorithm	Parameter	Process ID		
		P ₀	P ₁	P ₂
FCFS	Wait	9 - 2 = 7 ms	0 - 0 = 0 ms	5 - 1 = 4 ms
	tat	11 - 2 = 9 ms	5 - 0 = 5 ms	9 - 1 = 8 ms

c) Calculate the CPU utilization.

CPU utilization =
$$\frac{\text{birio}}{\text{lighting include}} \times 100\%$$
= $\frac{11}{11} \times 100\%$
= 100%