

## Lab Assignment 4

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**Semester:** 8

**Branch:** Electrical Engineering

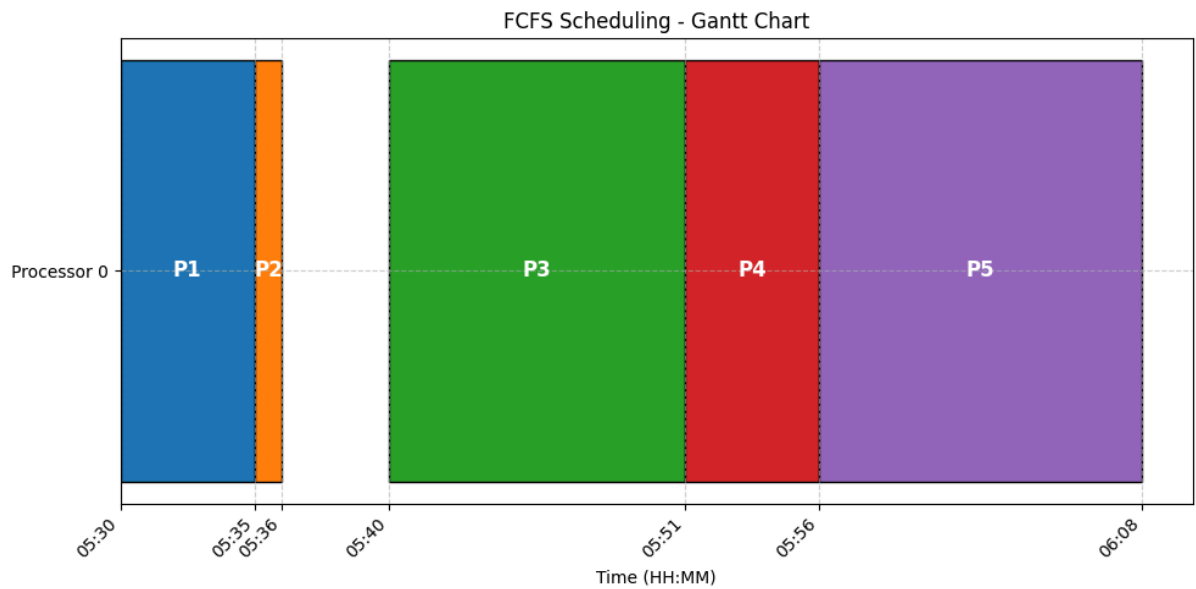
**Due Date:** Mar 5, 2025

The arrival time for four processes to a system are as below:

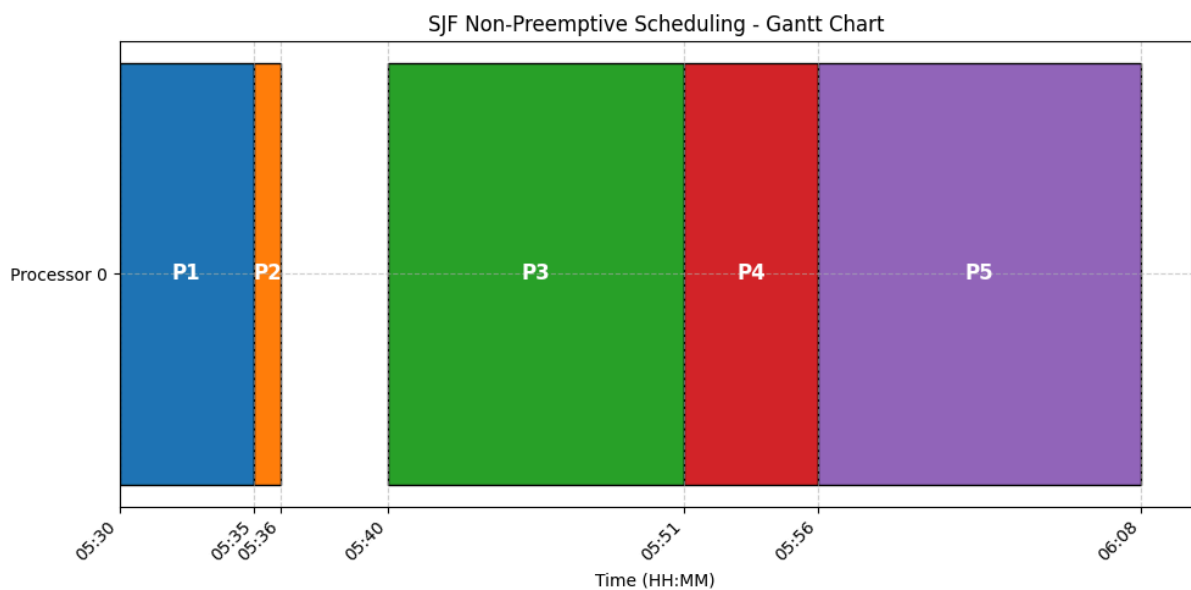
Process ID	Arrival Time	Estimated Processing Time
P1	5:30 PM	5 unit time
P2	5:33 PM	1 unit time
P3	5:40 PM	11 unit time
P4	5:42 PM	5 unit time
P5	5:45 PM	12 unit time

Different Timing Diagrams for these processes:

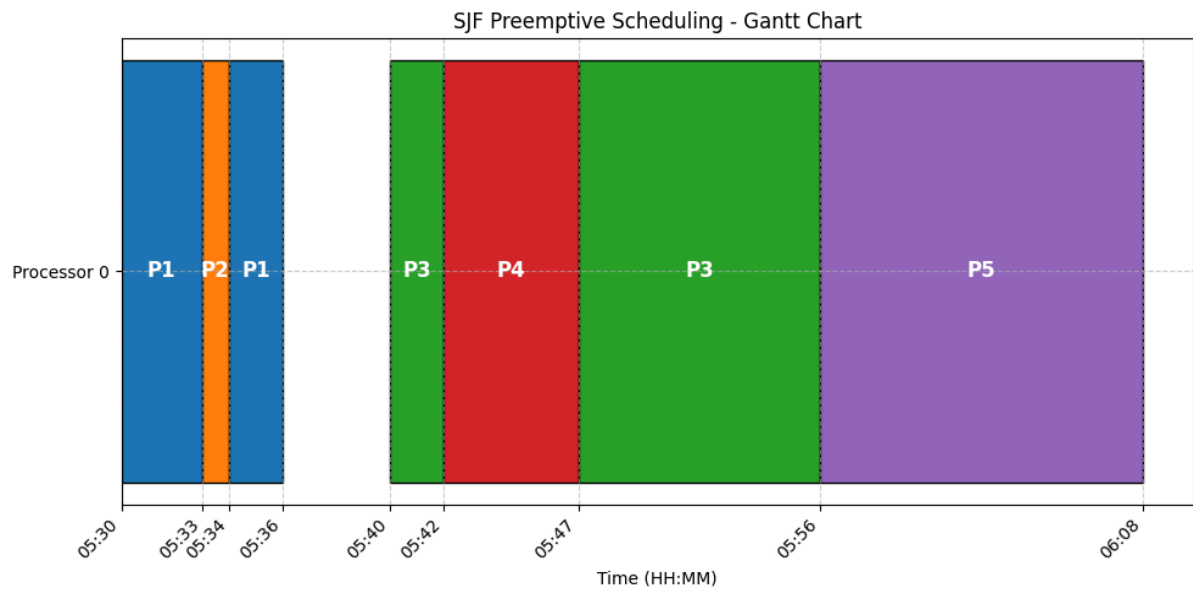
## 1. Multiprogramming System (FCFS)



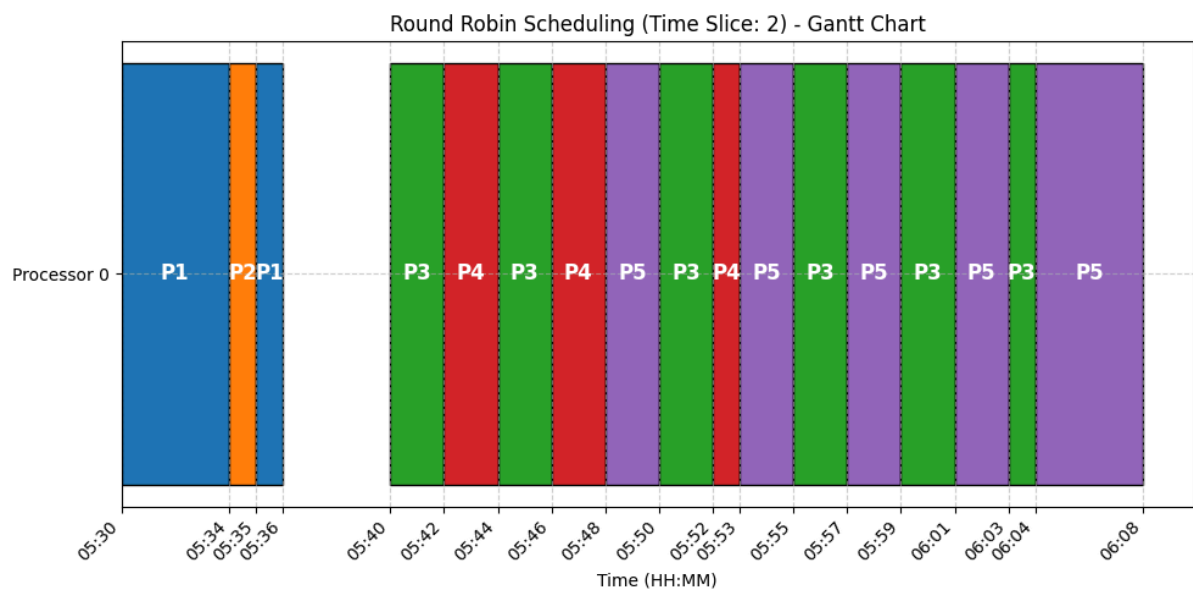
## 2. Multiprogramming with priority for shortest job first in non-preemptive mode (SJF)



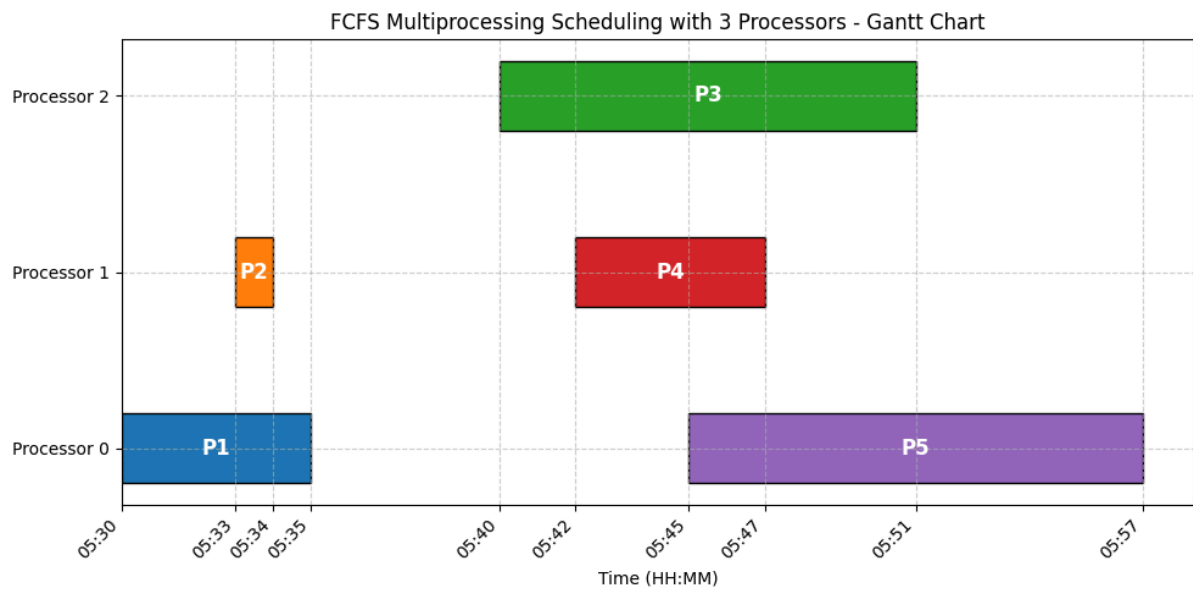
### 3. Multiprogramming with priority for shortest job first in pre-emptive mode (SRTF)



### 4. Time sharing system (RR) with time slice of 2-unit time



## 5. Multiprocessing system (FCFS) with 3 processors



## 6. Multiprocessing time sharing system (RR) with two processors and time slice of 2 unit time

