**Assignment**

**Problem 1**

Solve this problem using FCFS algorithm and calculate the average waiting time of the problem

Process Burst Time

*P1* 24

*P2* 3

*P3* 3

Suppose that the processes arrive in the order: *P1*, *P2* , *P3*

**Problem 2**

Solve this problem using FCFS algorithm and calculate the average waiting time of the problem

|  |  |  |
| --- | --- | --- |
| **Process ID** | **Arrival Time** | **Burst Time** |
| **P1** | **4** | **5** |
| **P2** | **6** | **4** |
| **P3** | **0** | **3** |
| **P4** | **6** | **2** |
| **P5** | **5** | **4** |

**Problem 3**

Calculate the average waiting time of the problem using SJF algorithm whose process Id and Burst time are given below:

**Process Arrival Time Burst Time**

*P1* 0.0 6

*P2* 2.0 8

*P3* 4.0 7

*P4* 5.0 3

**Problem 4**

Calculate the average waiting time of the problem using SJF algorithm whose process Id and Burst time are given below:

Process Arrival Time Burst Time

*P1* 0 8

*P2* 1 4

*P3* 2 9

*P4* 3 5

**Problem 5**

Solve this using priority scheduling algorithm

* **Example**, consider the following set of processes, assumed to have arrived at time 0 in the order P1, *P2,* · · ·, *P5,* with the length of the CPU burst given in milliseconds:

|  |  |  |
| --- | --- | --- |
| **Process** | **Burst time** | **Priority** |
| P1 | 10 | 3 |
| P2 | 1 | 1 |
| P3 | 2 | 4 |
| P4 | 1 | 5 |
| P5 | 5 | 2 |