

Friday, 6th October 2023

Lab questions based on CPU Scheduling Algorithms:

Design and implement the following algorithms with a Data structure of your choice (DS can be either simple integer arrays, or singly linked lists, or doubly linked lists):

1. FCFS algorithm (you may assume all processes arrive at time zero).
2. SJF algorithm (Assume, the processes may arrive at different times).
3. Priority algorithm (you may assume all processes arrive at time zero).
4. Round robin algorithm; assume all processes arrive at zero time and fix a quantum time unit for the algorithm (say 2 or 3 ms)

In each case output the "Turn around time" as well as the "waiting time" of each process. (Note: the total number of processes, their arrival times, burst times may be input by the user).

Show the output in a user friendly readable way, preferably in a table format.
