Experiment No:5

AIM: To design Job scheduling algorithm

1)FCFS 2)SJF

Objective: To simulate and compare different CPU scheduling algorithm

1)FCFS 2)SJF

Theory:-CPU Scheduling deals with the problem of deciding which of the processes in the ready queue is to be allowed to utilize the CPU. The criteria for selection for an algorithm are

1)The maximum throughtput

2)Least Turn around time

3)Minimum waiting time

4)Maximum CPU utilization

1)First Come First Serve(FCFS)

FCFS is the simplest CPU scheduling algorithm. It is implemented using a job queue, when a process requests the CPU it is added at the tail of the job queue. The CPU is allowed to the processes which is at the head of the queue. However the turn around time (TAT) varies which is not favored.

2)Shortest Job First(SJF)

This algorithm associates with the length of the CPU burst. When the CPU is available it is assigned to the job with the smallest CPU burst . This algorithm provides mininmum average waiting time. The major problem with this algorithm is the longest job has to wait for long time.

\*\*\*\*\* Solve problem based on FCFS & SJF\*\*\*\*\*\*