# Cycle 3 CPU Scheduling Algorithms

## Experiment No. 3.1

Aim: Implementation of FCFS and SJF scheduling algorithm

- (1) Write a Menu driven program to implement FCFS and SJF CPU scheduling algorithm (Non Preemeptive). Read burst time from the user. Display the Gantt chart and compute the following.
- a) Waiting time of each process.
- b) Average waiting Time.
- c) Turn Around Time of each process.
- d) Average Turn Around Time.
- e) Throughput.

### Experiment No. 3.2

Aim: Implementation of SRTF scheduling algorithm

(2) Write a Program to implement SJF CPU Scheduling algorithm (both preemptive and non-preemptive) and calculate Average Waiting Time, Average Turn Around Time, Average Response Time and Throughput of the system.

#### Experiment No. 3.3

Aim: Implementation of priority scheduling algorithm

- (3) Write a program to implement Priority Scheduling algorithm (Preemptive and Non-Preemptive). Read burst time, priority, arrival time and display the following.
- a) Waiting time of each process.
- b) Average waiting Time.
- c) Turn Around Time of each process.
- d) Average Turn Around Time.
- e) Throughput and Gannt chart

### Experiment No. 3.4

Aim: Implementation of round robin scheduling algorithm

(4) Write a Program to implement Round Robin Scheduling algorithm. Implement the program as a menu driven on the basis of time quantum (possible values of time quantums are : 2ms, 4ms, 5ms, 8ms and 10 ms). Display the Gantt chart and calculate Average Waiting Time, Average Turn Around Time and Throughput of the system in each case.