## OS LAB MANUAL

(CS23431)

Lab:3

Roll No:230701246

EX.NO:6A

## FIRST COME FIRST SERVE

Aim: FIRST COME FIRST SERVE To implement First-come First- serve (FCFS) scheduling technique

```
Program:
#include <stdio.h>
int main() {
  int n, i;
  int burst_time[10], waiting_time[10], turnaround_time[10];
  int total_waiting_time = 0, total_turnaround_time = 0;
  printf("Enter the number of processes: ");
  scanf("%d", &n);
  printf("Enter the burst time of the processes:\n");
  for (i = 0; i < n; i++) {
    printf("Process %d: ", i);
    scanf("%d", &burst_time[i]);
  }
  waiting time[0] = 0;
  for (i = 1; i < n; i++) {
    waiting_time[i] = burst_time[i - 1] + waiting_time[i - 1];
  }
  for (i = 0; i < n; i++) {
    turnaround time[i] = burst time[i] + waiting time[i];
```

```
}
  printf("\nProcess\tBurst Time\tWaiting Time\tTurn Around Time\n");
  for (i = 0; i < n; i++) {
    printf("%d\t\d\t\t%d\n", i, burst time[i], waiting time[i], turnaround time[i]);
  }
 for (i = 0; i < n; i++) {
    total_waiting_time += waiting_time[i];
    total turnaround time += turnaround time[i];
 }
  printf("\nAverage waiting time is: %.2f", (float)total waiting time / n);
  printf("\nAverage Turnaround Time is: %.2f\n", (float)total turnaround time / n);
  return 0;
}
Input:
praveen@LAPTOP-Q0D806DB:~$ ./a.out
Enter the number of processes: 4
Enter the burst time of the processes:
Process 0: 5
Process 1: 7
Process 2: 9
Process 3: 7
OUTPUT:
praveen@LAPTOP-Q0D806DB:~$ ./a.out
Enter the number of processes: 4
Enter the burst time of the processes:
Process 0: 5
Process 1: 7
Process 2: 9
Process 3: 7
Process Burst Time
                                            Turn Around Time
                          Waiting Time
        5
7
0
                          0
                                            5
```

12

21 28

5

12

21

2 3

9

7

Average waiting time is: 9.50 Average Turnaround Time is: