

NAME: ARUN MC

ROLL NO: 230701036

Exp:6a

### FIRST COME FIRST SERVE

**Aim:**

**To implement First-come First- serve (FCFS) scheduling technique**

**CODE:**

```
#include<stdio.h>
int main() {
    int n;
    printf("Enter the number of processes: ");
    scanf("%d",&n);
    int process[n], burst_time[n], waiting_time[n], turn_around_time[n], total_waiting_time=0,total_turn_around_time=0;
    printf("\nEnter the burst time: \n");
    for(int i=0;i<n;i++){
        process[i]=i;
        scanf("%d",&burst_time[i]);
    }

    //finding waiting time
    waiting_time[0]=0;
    for(int i=1;i<n;i++)
        waiting_time[i]=waiting_time[i-1]+burst_time[i-1];

    //finding turnaround time
    for(int i=0;i<n;i++){
        turn_around_time[i]=burst_time[i]+waiting_time[i];
        total_turn_around_time+=turn_around_time[i];
        total_waiting_time+=waiting_time[i];
    }

    printf("\nprocess   burst_time   waiting_time   turn_around_time\n");
    for(int i=0;i<n;i++){
        printf("   %d       %d           %d           %d\n", process[i],burst_time[i], waiting_time[i],turn_around_time[i]);
    }
    //printf("%d %d",total_waiting_time/n,total_turn_around_time/n);
    printf("\nAverage waiting time : %d\n",total_waiting_time/n);
    printf("\nAverage turn around time : %d\n",total_turn_around_time/n);
}
~
~
~
~
~
~
~
-- INSERT --
```

**OUTPUT:**

```

[cse36@localhost ~]$ vi 6a_fcfs.c
[cse36@localhost ~]$ cc 6a_fcfs.c
[cse36@localhost ~]$ ./a.out
Enter the number of processes: 3

Enter the burst time:
24
3
3

process  burst_time  waiting_time  turn_around_time
0         24         0         24
1          3         24         27
2          3         27         30

Average waiting time : 17

Average turn around time : 27
[cse36@localhost ~]$ ./a.out
Enter the number of processes: 5

Enter the burst time:
1
2
3
4
5

process  burst_time  waiting_time  turn_around_time
0          1         0         1
1          2         1         3
2          3         3         6
3          4         6        10
4          5        10        15

Average waiting time : 4

Average turn around time : 7

```