

## Lab report no : 07

Name of the lab report : Implementation of FCFS Scheduling Algorithm.

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**Objective:** FCFC algorithm Definition & executable code in c are followed.

### Q.1 What is FCFS Scheduling algorithm?

**Ans:** First come, first served (FCFS) is an operating system process scheduling algorithm and a network routing management mechanism that automatically executes queued requests and processes by the order of their arrival. With first come, first served, what comes first is handled first; the next request in line will be executed once the one before it is complete.

### Q.2 How to implemented in C?

**Ans:**

The code written in c are given below:

```
#include<stdio.h> int main() {    int
n,bt[20],wt[20],tat[20],avwt=0,avtat=0,i,j;    printf("Enter
total number of processes(maximum 20):");
scanf("%d",&n);

    printf("\nEnter Process Burst Time\n");
for(i=0;i<n;i++)
    {
        printf("P[%d]:",i+1);
scanf("%d",&bt[i]);
    }

    wt[0]=0;
for(i=1;i<n;i++)
```

```

        {      wt[i]=0;
for(j=0;j<i;j++)
wt[i]+=bt[j];
    }

printf("\nProcess\tBurst Time\tWaiting Time\tTurnaround Time");

for(i=0;i<n;i++)
{
    tat[i]=bt[i]+wt[i];    avwt+=wt[i];    avtat+=tat[i];
printf("\nP[%d]\t\t%d\t\t%d\t\t%d",i+1,bt[i],wt[i],tat[i]);
    }

    avwt/=i;
    avtat/=i;

    printf("\n\nAverage Waiting Time:%d",avwt);
printf("\n\nAverage Turnaround Time:%d",avtat);

    return 0;
}

```

**Output:**

Enter total number of processes(maximum 20):3

Enter Process Burst Time

P[1]:12

P[2]:6

P[3]:13

Process	Burst Time	Waiting Time	Turnaround Time
P[1]	12	0	12
P[2]	6	12	18
P[3]	13	18	31

Average Waiting Time:10

Average Turnaround Time:20