# Mawlana Bhashani Science and Technology University

# Lab-Report

Lab Report No: 05
Lab Report Name: Implementation of FCFS Scheduling Algorithm.
Course code: ICT-3110
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## Lab Report No : 07
## Name of the Lab Report : Implementation of FCFS Scheduling Algorithm.

**Objective:** FCFS algorithm Definition and executable code in c are followed int this report.

### 1. What is FCFS Scheduling algorithm?

**Answer:** 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.

### 2. How to implemented in C?

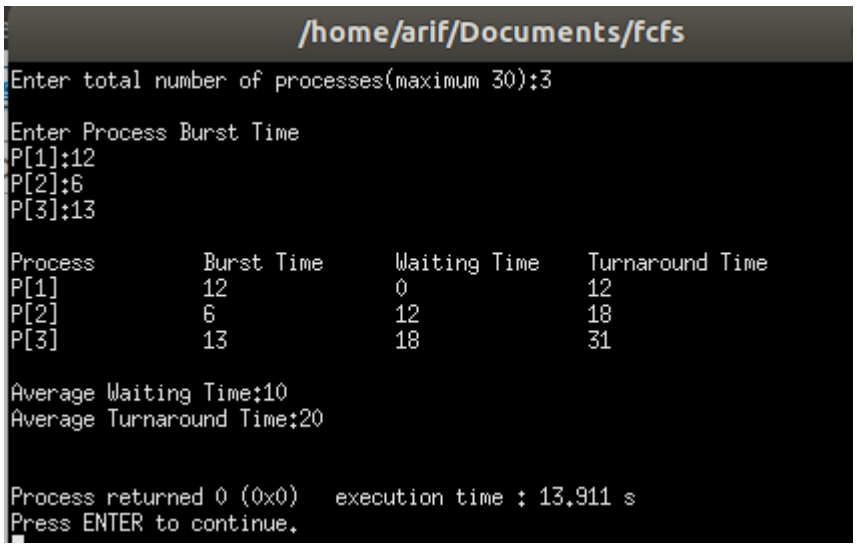
**Answer:**

The code written in c are given below:

```
#include<stdio.h>
int main()
{
	int n,BuT[31],WaT[31],TuT[31],Avwt=0,Avtat=0,i,j;
	printf("Enter total number of processes(maximum 30):");
	scanf("%d",&n);

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

	WaT[0]=0;
	for(i=1; i<n; i++) {
		WaT[i]=0;
		for(j=0; j<i; j++)
			WaT[i] += BuT[j];
	}

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


	for(i=0; i<n; i++) {
		TuT[i]=BuT[i]+WaT[i];
		Avwt+=WaT[i];
```

```
        Avtat+=TuT[i];
        printf("\nP[%d]\t\t%d\t\t%d\t\t%d",i+1,BuT[i],WaT[i],TuT[i]);
    }

    Avwt/=i;
    Avtat/=i;
    printf("\n\nAverage Waiting Time:%d",Avwt);
    printf("\nAverage Turnaround Time:%d\n\n",Avtat);

    return 0;
}
```

**Output:**




**Conclusion:** In this algorithm, we leart about FCFS algorithm details. Here if we can input a specific number of burst time then we get the output of average waiting time and average Turnaround time.