

Lab Report: 03

Report Title: FCFS(First Come First Serve) code in C language

Name: Md. Rakibur Rahman, **Batch:** D-59, **Roll:** 30, **Course Code:** CSE-310

FCFS Code:

```
#include<stdio.h>
int main(){
int n,i,j,bt[20],wt[20],tat[20];
float avwt=0.0, avtat=0.0;
printf("Enter the number of processes: ");
scanf("%d",&n);
printf("\nEnter the 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\t\tBurst Time\tWaiting Time\tTurnarround Time\n");
for(i=0;i<n;i++){
    tat[i]=wt[i]+bt[i];
    avwt+=wt[i];
    avtat+=tat[i];
    printf("p[%d]\t\t%d\t\t%d\t\t%d\n",i+1,bt[i],wt[i],tat[i]);
}

printf("\nAverage waiting time: %.2f\n",avwt/i);
printf("Average turnarround time: %.2f\n\n",avtat/i);
return 0;
}
```

Output

```
C:\Users\Lenovo\OneDrive\Desktop\fcfs.exe
Enter the number of process: 3

Enter the process Burst Time
p[1]: 24
p[2]: 3
p[3]: 3

Process          Burst Time    Waiting Time    Turnarround Time
p[1]             24           0               24
p[2]             3            24              27
p[3]             3            27              30

Average waiting time: 17.00
Average turnarround time: 27.00

Process returned 0 (0x0)   execution time : 5.903 s
Press any key to continue.
```