FCFS

```c
#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;                      //waiting time for first process is 0
//calculating waiting time
for(i =1;i < n; i++)
{
wt[i] = 0;
for(j = 0;j < i;j++)
wt[i]+= bt[j];
}
printf("\n Process\t\tBurst Time\tWaiting Time\tTurnaround Time");
//calculating turnaround time
for(i = 0;i < n;i++)
{
tat[i] = bt[i]+wt[i];
avwt+= wt[i];
avtat+= tat[i];
printf("\n P[%d]\t\t%d\t\t%d\t\t%d",i+1,bt[i],wt[i],tat[i]);
}
avwt/= i;
avtat/= i;
printf("\n\n Average Waiting Time:%d",avwt);
printf("\n Average Turnaround Time:%d",avtat);
return 0;
}
```

```
RunnerFile } ; if ($?) { .\tempCodeRunnerFile }
Enter total number of processes(maximum 20):5

Enter Process Burst Time
P[1]:10
P[2]:5
P[3]:6
P[4]:8
P[5]:7

 Process           Burst Time      Waiting Time      Turnaround Time
 P[1]              10                  0                  10
 P[2]              5                   10                 15
 P[3]              6                   15                 21
 P[4]              8                   21                 29
 P[5]              7                   29                 36

 Average Waiting Time:15
 Average Turnaround Time:22
PS C:\Users\dgs\Desktop\OS OTT\os 1 vivek\OS 4 TO 10>
```