***//Assignment-6 Operating Systems Lab***

***//A program to implement FCFS scheduling algorithm***

#include <stdio.h>

int main()

{

int bt[100],wt=0,tat=0,n,i;

float awt,atat,awt1=0,atat1=0;

printf("\n Enter the number of process: ");

scanf("%d",&n);

for (i=0;i<n;i++)

{

printf("\n Enter the burst time of process %d: ",i+1);

scanf("%d",&bt[i]);

}

printf("\n Process ID \t Burst Time \t Waiting Time \t Turnaround Time");

for(i=0;i<n;i++)

{

tat=wt+bt[i];

printf("\n %d \t\t %d \t\t %d \t\t %d",i+1,bt[i],wt,tat);

awt1=awt1+wt;

wt=wt+bt[i];

atat1=atat1+tat;

}

awt=awt1/n;

atat=atat1/n;

printf("\n Average waiting time= %f",awt);

printf("\n Average turnaround time= %f",atat);

return(0);

}

**OUTPUT:**

Enter the number of process: 3

Enter the burst time of process 1: 24

Enter the burst time of process 2: 3

Enter the burst time of process 3: 3

Process ID Burst Time Waiting Time Turnaround Time

1 24 0 24

2 3 24 27

3 3 27 30

Average waiting time= 17.000000

Average turnaround time= 27.000000