**II ) FCFS**

#include<stdio.h>

#include<stdlib.h>

struct process

{

char name[2];

int ET,WT,CT,TAT;

};

void main()

{

int i,n=0;

float sum1,sum2,mean1,mean2;

struct process s[10];

printf("Enter the no of processes");

scanf("%d",&n);

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

{

printf("\n Enter the name of %dth process:",i+1);

fflush(stdin);

scanf("%s",&s[i].name);

printf("\n Enter the execution time of %dth process",i+1);

scanf("%d",&s[i].ET);

}

printf("\n Name \t ET");

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

{

printf("\n %s \t %d",s[i].name,s[i].ET);

}

s[0].WT=0;

s[0].TAT=s[0].CT=s[0].ET;

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

{

s[i].WT=s[i-1].ET;

s[i].TAT=s[i].CT=s[i-1].ET+s[i].ET;

}

printf("\n The output table is:");

printf("\n Name \t ET \t WT \t TAT");

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

{

printf("\n %s \t %d \t %d \t %d",s[i].name,s[i].ET,s[i].WT,s[i].TAT);

}

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

{

sum1=sum1+s[i].TAT;

sum2=sum2+s[i].WT;

}

mean1=sum1/n;

mean2=sum2/n;

printf("\n The average of WT is: %f",mean2);

printf("\n The average of TAT is: %f",mean1);

}

/\* OUTPUT:

Enter the no of processes4

Enter the name of 1th process:a

Enter the execution time of 1th process4

Enter the name of 2th process:b

Enter the execution time of 2th process5

Enter the name of 3th process:c

Enter the execution time of 3th process3

Enter the name of 4th process:d

Enter the execution time of 4th process6

Name ET

a 4

b 5

c 3

d 6

The output table is:

Name ET WT TAT

a 4 0 4

b 5 4 9

c 3 5 8

d 6 3 9

The average of WT is: 3.000000

The average of TAT is: 7.500000\*/