/\* code for fcfs \*/

#include<stdio.h>

void main()

{

char p[10][10];

int tot=0,wt[10],i,n,pt[10]={0},et[10]={0};

float avg=0;

//clrscr();

printf("enter no of processes:");

scanf("%d",&n);

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

{

printf("enter process%d name and process time:\n",i+1);

scanf("%s",p[i]);

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

}

wt[0]=0;

for(i=1;i<n;i++)

{

wt[i]=wt[i-1]+pt[i-1];

tot=tot+wt[i];

}

avg=(float)tot/n;

printf("p\_name\t P\_time\t w\_time\n");

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

printf("%s\t%d\t%d\n",p[i],pt[i],wt[i]);

printf("total waiting time=%d\n avg waiting time=%f",tot,avg);

}

-----------------------------output-------------------------------

enter no of processes:3

enter process1 name and process time:

p1 10

enter process2 name and process time:

p2 9

enter process3 name and process time:

p3 5

p\_name P\_time w\_time

p1 10 0

p2 9 10

p3 5 19

total waiting time=29

avg waiting time=9.666667

/\*code for sjf\*/

#include<stdio.h>

#include<string.h>

void main()

{

char p[10][5],temp[5];

int tot=0,wt[10],pt[10],i,j,n,temp1;

float avg=0;

printf("enter no of processes:");

scanf("%d",&n);

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

{

printf("enter process%d name and process time:\n",i+1);

scanf("%s",p[i]);

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

}

for(i=0;i<n-1;i++)

{

for(j=i+1;j<n;j++)

{

if(pt[i]>pt[j])

{

temp1=pt[i];

pt[i]=pt[j];

pt[j]=temp1;

strcpy(temp,p[i]);

strcpy(p[i],p[j]);

strcpy(p[j],temp);

}

}

}

wt[0]=0;

for(i=1;i<n;i++)

{

wt[i]=wt[i-1]+pt[i-1];

tot=tot+wt[i];

}

avg=(float)tot/n;

printf("p\_name\t P\_time\t w\_time\n");

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

printf("%s\t%d\t%d\n",p[i],pt[i],wt[i]);

printf("total waiting time=%d\n avg waiting time=%f",tot,avg);

}

--------------------------output--------------------------

enter no of processes:3

enter process1 name and process time:

p1 10

enter process2 name and process time:

p2 8

enter process3 name and process time:

p3 6

p\_name P\_time w\_time

p3 6 0

p2 8 6

p1 10 14

total waiting time=20