FCFS

#include<stdio.h>

int main()

{

char pn[10];

int arr[10],bur[10],star[10],finish[10],tat[10],wt[10],i,n;

int totwt=0,tottat=0;

printf("Enter the number of processes:");

scanf("%d",&n);

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

{

printf("Enter the Process Name, Arrival Time & Burst Time:");

scanf("%s%d%d",&pn[i],&arr[i],&bur[i]);

}

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

{

if(i==0)

{

star[i]=arr[i];

wt[i]=star[i]-arr[i];

finish[i]=star[i]+bur[i];

tat[i]=finish[i]-arr[i];

}

else

{

star[i]=finish[i-1];

wt[i]=star[i]-arr[i];

finish[i]=star[i]+bur[i];

tat[i]=finish[i]-arr[i];

}

}

printf("\nPName Arrtime Burtime Start TAT Finish");

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

{

printf("\n%s\t%6d\t\t%6d\t%6d\t%6d\t%6d",pn[i],arr[i],bur[i],star[i],tat[i],finish[i]);

totwt+=wt[i];

tottat+=tat[i];

}

printf("\nAverage Waiting time:%f", (float)totwt/n);

printf("\nAverage Turn Around Time:%f", (float)tottat/n);

}

SOURCE CODE:

/\* A program to simulate the SJF CPU scheduling algorithm \*/

#include<stdio.h>

#include<string.h>

main()

{

Int i=0,pno[10],bt[10],n,wt[10],temp=0,j,tt[10];

float sum,at;

printf("\n Enter the no of process ");

scanf(" %d",&n);

printf("\n Enter the burst time of each process");

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

{

printf("\n p%d",i);

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

}

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

{

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

{

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

{

temp=bt[i];

bt[i]=bt[j];

bt[j]=temp;

temp=pno[i];

pno[i]=pno[j];

pno[j]=temp;

}

}

}

wt[0]=0;

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

{

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

sum=sum+wt[i];

}

printf("\n process no \t burst time\t waiting time \t turn around time\n");

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

{

tt[i]=bt[i]+wt[i];

at+=tt[i];

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

}

printf("\n\n\t Average waiting time%f\n\t Average turn around time%f", sum/n,at/n);

}