/\*Program to implement fcfs Algorithm

Name:Anand Joshy K

CS S6

Rollno: 7

Date:16/02/2017\*/

#include<stdio.h>

main()

{

int n,ar[10],bt[10],tur[10],wt[10],f[10],i,m;

float avrgtt=0,avrgwt=0;

/\* for(i=0;i<10;i++)

{

ar[i]=0; bt[i]=0; wt[i]=0; f[i]=0;

}\*/

printf("enter the limit ");

scanf("%d",&n);

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

{ printf("enter the burst time");

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

printf("\nenter the arrival time");

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

}

printf("\n\tprocess\tarrival time time\tburst time\n");

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

{

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

}

f[0]=0;

for(i=0;i<10;i++)

f[i+1]=f[i]+bt[i];

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

{

wt[i]=f[i]-ar[i];

tur[i]=f[i+1]-ar[i];

avrgwt=avrgwt+wt[i];

avrgtt=avrgtt+tur[i];

}

avrgwt =avrgwt/n;

avrgtt=avrgtt/n;

printf("\n\tprocess\twaiting time\tturn arround time\n");

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

{

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

}

printf("the average waiting time is %f\n",avrgwt);

printf("the average turn around time is %f\n",avrgtt);

printf("\nGantt Chart is\n");

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

printf(" P%d",i+1);

printf("\n");

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

printf(" %d ",f[i]);

}

OUTPUT

student@user:~/Anand$ ./a.out

enter the limit 3

enter the burst time24

enter the arrival time0

enter the burst time3

enter the arrival time3

enter the burst time4

enter the arrival time7

process arrival time time burst time

1 0 24

2 3 3

3 7 4

process waiting time turn arround time

p1 0 24

p2 21 24

p3 20 24

the average waiting time is 13.666667

the average turn around time is 24.000000

Gantt Chart is

P1 P2 P3

0 24 27 31

