**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY**

**WAKNAGHAT**

**Operating Systems Lab**

**Experiment – 6**

**Task: WAP to implement the FCFS Scheduling Policy.**

**Name -** Akash Kumar Singh

**Roll no. -** 201460

**Batch -** CS 48

**//Code –**

#include<stdio.h>

int main()

{

int n;

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

scanf("%d",&n);

int at[n],bt[n],ct[n],tat[n],wt[n];

printf("Enter the Arrival Time of all the processes:");

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

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

printf("Enter the Burst Time of all the processes:");

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

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

ct[0]=bt[0];

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

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

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

tat[i]=ct[i]-at[i];

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

wt[i]=tat[i]-bt[i];

for(int j=0;j<n;j++)

printf("p%d\t%d\t%d\t%d\t%d\t%d\n",j+1,at[j],bt[j],ct[j],tat[j],wt[j]);

float tat\_sum=0;

float avg\_tat;

for(int k=0;k<n;k++)

tat\_sum=tat\_sum+tat[k];

avg\_tat=tat\_sum/n;

printf("The average Turn Around Time is: %.2f\n",avg\_tat);

float wt\_sum=0;

float avg\_wt;

for(int k=0;k<n;k++)

wt\_sum=wt\_sum+wt[k];

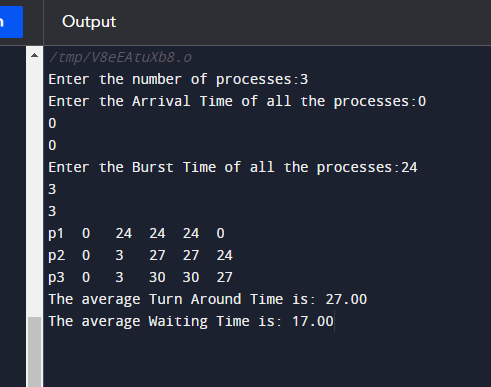
avg\_wt=wt\_sum/n;

printf("The average Waiting Time is: %.2f",avg\_wt);

return 0;

}

**//Output –**

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