//fcfs.c

#include <stdio.h>

int main()

{

int pid[15];

int bt[15];

int n;

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

scanf("%d",&n);

printf("Enter process id of all the processes: ");

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

{

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

}

printf("Enter burst time of all the processes: ");

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

{

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

}

int i, wt[n];

wt[0]=0;

//for calculating waiting time of each process

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

{

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

}

printf("Process ID Burst Time Waiting Time TurnAround Time\n");

float twt=0.0;

float tat= 0.0;

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

{

printf("%d\t\t", pid[i]);

printf("%d\t\t", bt[i]);

printf("%d\t\t", wt[i]);

//calculating and printing turnaround time of each process

printf("%d\t\t", bt[i]+wt[i]);

printf("\n");

//for calculating total waiting time

twt += wt[i];

//for calculating total turnaround time

tat += (wt[i]+bt[i]);

}

float att,awt;

//for calculating average waiting time

awt = twt/n;

//for calculating average turnaround time

att = tat/n;

printf("Avg. waiting time= %f\n",awt);

printf("Avg. turnaround time= %f",att);

}

Enter the number of processes: 5

Enter process id of all the processes: 1 2 3 4 5

Enter burst time of all the processes: 5 6 7 8 9

Process ID Burst Time Waiting Time TurnAround Time

1 5 0 5

2 6 5 11

3 7 11 18

4 8 18 26

5 9 26 35

Avg. waiting time= 12.000000

Avg. turnaround time= 19.000000