9. Consider three processes (process id 0, 1, 2 respectively) with compute time bursts 2, 4 and 8-time units. All processes arrive at time zero. Write a program to compute the average waiting time and average turnaround time based on First Come First Serve scheduling#include<stdio.h>

int main()

{

int n=3; // Number of processes

int bt[]={2,4,8}; // Burst time of each process

int wt[n],tat[n],avwt=0,avtat=0,i,j;

// Computing waiting time

wt[0]=0; // Waiting time for first process is zero

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

{

wt[i]=0;

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

wt[i]+=bt[j];

}

// Computing turnaround time

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

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

// Computing average waiting time and average turnaround time

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

{

avwt+=wt[i];

avtat+=tat[i];

}

avwt/=n;

avtat/=n;

// Printing results

printf("Process\tBurst Time\tWaiting Time\tTurnaround Time\n");

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

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

printf("\nAverage Waiting Time = %d\n",avwt);

printf("Average Turnaround Time = %d",avtat);

return 0;

}

