3. Desig n a CPU scheduling program with C using First Come First Served technique with the following considerations. a. All processes are activated at time 0. b. Assume that no process waits on I/O devices.

PROGRAM

#include<stdio.h>

void main()

{

int n,bt[20],wt[20],tat[20],i,j; float avwt=0,avtat=0;printf("Enter total number of processes(maximum 20):");scanf("%d",&n);

printf("\nEnter Process Burst Time\n");for(i=0;i<n;i++)

{

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

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

} wt[0]=0;

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

{ wt[i]=0;for(j=0;j<i;j++)

wt[i]+=bt[j];

}

printf("\nProcess\t\tBurst Time\tWaiting Time\tTurnaround Time"); for(i=0;i<n;i++)

{

tat[i]=bt[i]+wt[i]; avwt+=wt[i]; avtat+=tat[i];printf("\nP[%d]\t\t%d\t\t%d\t\t%d",i+1,bt[i],wt[i],tat[i]);

} avwt/=i; avtat/=i;printf("\n\nAverage Waiting Time:%.2f",avwt);

printf("\nAverage Turnaround Time:%.2f",avtat);

}

Input And Output

