NAME-BHAVNA

COURSE-BSC IT

SECTION-A

STD ID-20052005

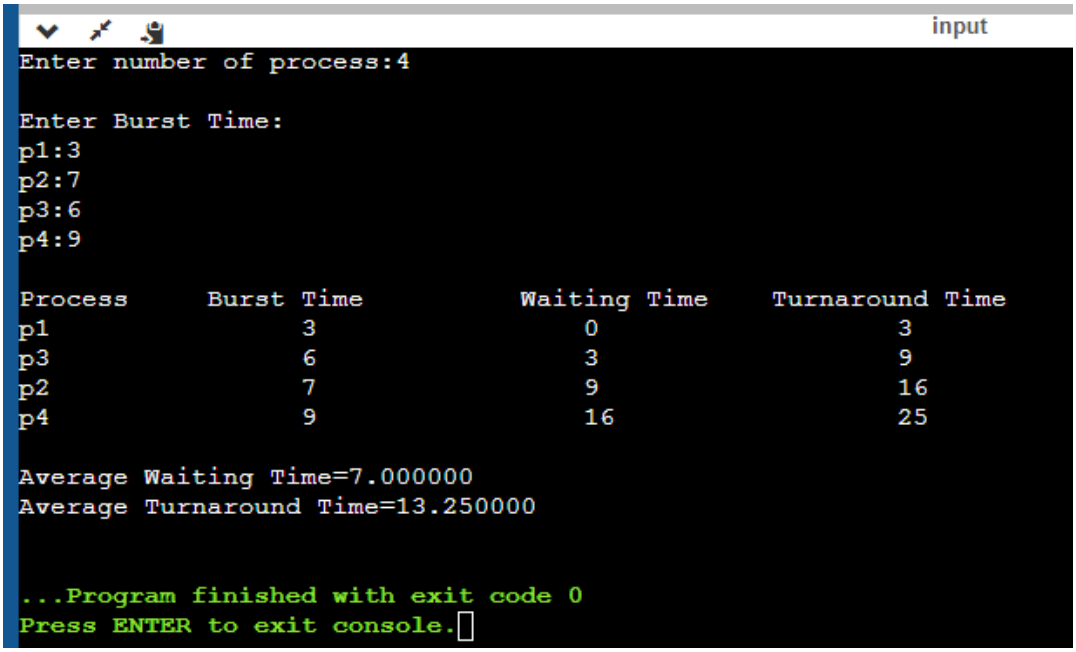
Q.2

```
#include<stdio.h>
 int main()
{
    int bt[20],p[20],wt[20],tat[20],i,j,n,total=0,pos,temp;
    float avg_wt,avg_tat;
    printf("Enter number of process:");
    scanf("%d",&n);
    printf("\nEnter Burst Time:\n");
    for(i=0;i<n;i++)
    {
        printf("p%d:",i+1);
        scanf("%d",&bt[i]);
        p[i]=i+1;
```

```
 }
//sorting of burst times
 for(i=0;i<n;i++)
 {
    pos=i;
    for(j=i+1;j<n;j++)
    {
       if(bt[j]<bt[pos])
          pos=j;
    }
    temp=bt[i];
    bt[i]=bt[pos];
    bt[pos]=temp;
    temp=p[i];
    p[i]=p[pos];
    p[pos]=temp;
 }
 wt[0]=0;
 for(i=1;i<n;i++)
```

```
    {
        wt[i]=0;
        for(j=0;j<i;j++)
            wt[i]+=bt[j];
        total+=wt[i];
    }
    avg_wt=(float)total/n;
    total=0;
    printf("\nProcess\t    Burst Time    \tWaiting Time\tTurnaround Time");
    for(i=0;i<n;i++)
    {
        tat[i]=bt[i]+wt[i];
        total+=tat[i];
        printf("\np%d\t\t  %d\t\t %d\t\t\t%d",p[i],bt[i],wt[i],tat[i]);
    }
    avg_tat=(float)total/n;
    printf("\n\nAverage Waiting Time=%f",avg_wt);
    printf("\nAverage Turnaround Time=%f\n",avg_tat);
```

}


input
Enter number of process:4
Enter Burst Time:
p1:3
p2:7
p3:6
p4:9
Process Burst Time Waiting Time Turnaround Time
p1 3 0 3
p3 6 3 9
p2 7 9 16
p4 9 16 25
Average Waiting Time=7.000000
Average Turnaround Time=13.250000
...Program finished with exit code 0
Press ENTER to exit console.