Program:

```c
#include<stdio.h>
int main()
{
 int st[10],bt[10],wt[10],tat[10],n,tq;
 int i,count=0,swt=0,stat=0,temp,sq=0;
 float awt,atat;
 printf("Enter the number of processes:");
 scanf("%d",&n);
 printf("Enter the burst time of each process: \n");
 for(i=0;i<n;i++)
 {
printf("p %d:",i+1);
scanf("%d",&bt[i]);
 st[i]=bt[i];
 }
 printf("Enter the time quantum:");
 scanf("%d",&tq);
 while(1)
 {
for(i=0,count=0;i<n;i++)
{
temp=tq;
if(st[i]==0)
{
count++;
continue;
}
if(st[i]>tq)
st[i]=st[i]-tq;
else
if(st[i]>=0)
{
temp=st[i];
st[i]=0;
}
sq=sq+temp;
tat[i]=sq;
}
if(n==count)
break;
}
```

```
for(i=0;i<n;i++)
{
wt[i]=tat[i]-bt[i];
swt=swt+wt[i];
stat=stat+tat[i];
}
awt=(float)swt/n;
atat=(float)stat/n;
printf("process no\t burst time\t waiting time\t turnaround time\n");
for(i=0;i<n;i++)
printf("%d\t\t %d\t\t %d\t\t %d\n",i+1,bt[i],wt[i],tat[i]);
printf("avg wt time=%f,avg turn around time=%f",awt,atat);
}
```

Output:

```
Enter the number of processes:10
Enter the burst time of each process:
p 1:9
p 2:7
p 3:6
p 4:14
p 5:25
p 6:2
p 7:1
p 8:4
p 9:8
p 10:0
Enter the time quantum:2
process no       burst time      waiting time    turnaround time
1                9               44              53
2                7               39              46
3                6               31              37
4                14              49              63
5                25              51              76
6                2               10              12
7                1               12              13
8                4               25              29
9                8               44              52
10               0               32767           32767
avg wt time=3307.199951,avg turn around time=3314.800049
```