```
#include<stdio.h>
struct block
int pno;
int bt,wt,tat,rem_bt;
}p[4];
void main()
int i,qt,n,count=0,sq=0,temp;
int total wt=0,total tat=0;
float avg_wt,avg_tat;
printf("\nEnter the no of Process : ");
scanf("%d",&n);
for(i=0;i<n;i++)
  printf("\nProcess : %d",i+1);
  printf("\nEnter the Burst Time : ");
  scanf("%d",&p[i].bt);
  p[i].rem_bt=p[i].bt;
  p[i].pno=i+1;
printf("\nEnter the Quantum Time : ");
scanf("%d",&qt);
printf("\nProcess\tBurst Time\n");
for(i=0;i<n;i++)
 {
 printf("\n%d\t%d",p[i].pno,p[i].bt);
while(1)
 for(i=0,count=0;i<n;i++)</pre>
   temp=qt;
   if(p[i].rem_bt==0)
   {
    count++;
    continue;
    }
```

```
if(p[i].rem_bt>qt)
   {
    p[i].rem_bt=p[i].rem_bt-qt;
   else if(p[i].rem_bt>=0)
    temp=p[i].rem_bt;
    p[i].rem_bt=0;
   sq=sq+temp;
   p[i].tat=sq;
  if(count==n)
   break;
  }
 }
printf("\nProcess\tBurst time\tWaiting Time\tTurn Around Time\n");
for(i=0;i<n;i++)
 p[i].wt=p[i].tat-p[i].bt;
 total wt=total wt+p[i].wt;
 total_tat=total_tat+p[i].tat;
 printf("\n%d\t%d\t\t%d\t\t%d",p[i].pno,p[i].bt,p[i].wt,p[i].tat);
avg_wt=(float)total_wt/n;
avg tat=(float)total tat/n;
printf("\nAverage Waiting Time : %f",avg wt);
printf("\nAverage Turn Around Time : %f",avg_tat);
return;
}
```

```
#include<stdio.h>
struct block
int pno;
int bt,pr,wt,tat;
}p[4];
void main()
int total_wt=0.0,total_tat=0.0;
float avg_wt,avg_tat;
int n,i,j,temp;
printf("\nEnter the no of process : ");
scanf("%d",&n);
for(i=0;i<n;i++)
 {
  p[i].pno=i+1;
  printf("\nProcess : %d",i+1);
  printf("\nEnter the Burst time : ");
  scanf("%d",&p[i].bt);
  printf("Enter the Priority : ");
  scanf("%d",&p[i].pr);
printf("\nProcess\tBurst Time\tPriority\n");
for(i=0;i<n;i++)
 printf("\n%d\t%d\t%d",p[i].pno,p[i].bt,p[i].pr);
for(i=0;i< n;i++)
 for(j=0;j< n-1;j++)
   if(p[j].pr>p[j+1].pr)
    temp=p[j].pr;
    p[j].pr=p[j+1].pr;
    p[j+1].pr=temp;
```

```
temp=p[j].bt;
    p[j].bt=p[j+1].bt;
    p[j+1].bt=temp;
    temp=p[j].pno;
    p[j].pno=p[j+1].pno;
    p[j+1].pno=temp;
 }
 }
 p[0].wt=0;
 p[0].tat=p[0].bt;
 total_wt=total_wt+p[0].wt;
 total_tat=total_tat+p[0].tat;
 for(i=1;i<n;i++)
  p[i].wt=p[i-1].wt+p[i-1].bt;
  p[i].tat=p[i].wt+p[i].bt;
  total_wt=total_wt+p[i].wt;
  total_tat=total_tat+p[i].tat;
 }
avg wt=(float)total wt/n;
avg_tat=(float)total_tat/n;
printf("\nProcess\tBurst Time\tPriority\tWaiting Time\tTurn Around Time\n");
for(i=0;i<n;i++)
 {
 }
 printf("\nAverage Waiting time : %f",avg wt);
 printf("\nAverage Turn Around time : %f",avg_tat);
 return;
}
```

Enter the no of Process: 4

Process: 1

Enter the Burst Time: 10

Process: 2

Enter the Burst Time: 6

Process: 3

Enter the Burst Time: 2

Process: 4

Enter the Burst Time : 4

Enter the Quantum Time: 4

Process Burst Time

1	10
2	6
3	2
4	4

Process Burst Time Waiting Time Turn Around Time

1	10	12	22
2	6	14	20
3	2	8	10
4	4	10	14

Average Waiting Time: 11.000000 Average Turn Around Time: 16.500000

Enter the no of process: 4

Process: 1

Enter the Burst time: 10 Enter the Priority: 3

Process: 2

Enter the Burst time : 6 Enter the Priority: 2

Process: 3

Enter the Burst time: 2 Enter the Priority: 1

Process: 4

Enter the Burst time: 4 Enter the Priority: 4

Process	Burst Time	Priority		
1 2 3 4	10 6 2 4	3 2 1 4		
_				
Process	Burst Time	Priority	Waiting Time	Turn Around Time

Average Waiting time: 7.000000 Average Turn Around time: 12.500000