```
#include<stdio.h>
```

```
void main()
  int i, NOP, sum=0,count=0, y, quant, wt=0, tat=0, at[10], bt[10], temp[10];
  float avg_wt, avg_tat;
  printf(" Total number of process in the system: ");
  scanf("%d", &NOP);
  y = NOP;
for(i=0; i<NOP; i++)
printf("\n Enter the Arrival and Burst time of the Process[%d]\n", i+1);
printf(" Arrival time is: \t");
scanf("%d", &at[i]);
printf(" \nBurst time is: \t");
scanf("%d", &bt[i]);
temp[i] = bt[i];
}
printf("Enter the Time Quantum for the process: \t");
scanf("%d", &quant);
printf("\n Process No\t\tBurst Time\t\tTAT\t\tWaiting Time ");
for(sum=0, i = 0; y!=0;)
if(temp[i] \le quant \&\& temp[i] > 0)
  sum = sum + temp[i];
  temp[i] = 0;
  count=1;
  else if(temp[i] > 0)
     temp[i] = temp[i] - quant;
     sum = sum + quant;
  if(temp[i]==0 \&\& count==1)
  {
     printf("\nProcess No[%d] \t\t %d \t\t %d \t\t %d", i+1, bt[i], sum-at[i], sum-at[i]-bt[i]);
     wt = wt + sum - at[i] - bt[i];
     tat = tat + sum - at[i];
     count = 0;
  if(i==NOP-1)
     i=0;
```

```
else if(at[i+1]<=sum)
{
    i++;
}
else
{
    i=0;
}

avg_wt = wt * 1.0/NOP;
avg_tat = tat * 1.0/NOP;
printf("\n Average Turn Around Time: \t%f", avg_wt);
printf("\n Average Waiting Time: \t%f", avg_tat);
}</pre>
```

output:

 $avcoe@avcoe-HP-ProDesk-400-G1-SFF: ~\$ \ gcc \ RRK.c \\ avcoe@avcoe-HP-ProDesk-400-G1-SFF: ~\$./a.out \\ Total \ number \ of \ process \ in \ the \ system: 4$

Enter the Arrival and Burst time of the Process[1] Arrival time is: 0

Affival tille is:

Burst time is: 4

Enter the Arrival and Burst time of the Process[2]

Arrival time is: 2

Burst time is: 5

Enter the Arrival and Burst time of the Process[3]

Arrival time is: 4

Burst time is: 7

Enter the Arrival and Burst time of the Process[4]

Arrival time is: 5

Burst time is: 9

Enter the Time Quantum for the process: 3

Process No	Burst Time	TAT	Waiting Time
Process No[1]	4	13	9
Process No[2]	5	13	8
Process No[3]	7	18	11
Process No[4]	9	20	11

Average Turn Around Time: 9.750000 Average Waiting Time: 16.000000