

ROUND ROBIN

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main.c

Run

Output

Clear

```
1
2 #include<stdio.h>
3
4 void main()
5 {
6
7     int i, processes, sum=0,cnt=0, y, q, wt=0, tat=0, at[10], bt[10],
        temp[10];
8     float avg_waitt, avg_turnat;
9     printf(" Total number of process in the system: ");
10    scanf("%d", &processes);
11    y = processes;
12    for(i=0; i<processes; i++)
13    {
14        printf("\n Enter the Arrival and Burst time of the Process[%d]\n", i+1);
15        printf(" Arrival time is: \t");
16        scanf("%d", &at[i]);
17        printf(" \nBurst time is: \t");
18        scanf("%d", &bt[i]);
19        temp[i] = bt[i];
20    }
21
22    printf("Enter the Time Quantum for the process: \t");
23    scanf("%d", &q);
24    printf("\n Process No \t\t Burst Time \t\t TAT \t\t Waiting Time ");
25    for(sum=0, i = 0; y!=0; )
26    {
```

```
/tmp/I7HkYntL0p.o
Total number of process in the system: 3
Enter the Arrival and Burst time of the Process[1]
Arrival time is: 1
Burst time is: 24
Enter the Arrival and Burst time of the Process[2]
Arrival time is: 2
Burst time is: 3
Enter the Arrival and Burst time of the Process[3]
Arrival time is: 3
Burst time is: 3
Enter the Time Quantum for the process: 4
Process No      Burst Time      TAT      Waiting Time
Process No[2]   3                5         2
Process No[3]   3                7         4
Process No[1]   24              29         5
Average Turn Around Time: 3.666667
Average Waiting Time: 13.666667
```

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```
26 {
27 if(temp[i] <= q && temp[i] > 0) //
28 {
29     sum = sum + temp[i];
30     temp[i] = 0;
31     cnt=1;
32 }
33 else if(temp[i] > 0)
34 {
35     temp[i] = temp[i] - q;
36     sum = sum + q;
37 }
38 if(temp[i]==0 && cnt==1)
39 {
40     y--; //decrement the process no.
41     printf("\nProcess No[%d] \t\t %d\t\t\t\t %d\t\t\t\t %d", i+1, bt[i],
        sum-at[i], sum-at[i]-bt[i]);
42     wt = wt+sum-at[i]-bt[i];
43     tat = tat+sum-at[i];
44     cnt =0;
45 }
46 if(i==processes-1)
47 {
48     i=0;
49 }
50 else if(at[i+1]<=sum)
51 {
```

```
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Total number of process in the system: 3
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