## Program -8

```
1 #include<stdio.h>
   #INCLUMESCONTO.ND

int main() {

int in, 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; icNOP; 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]);

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\t Burst Time \t\t TAT \t\t Waiting Time ");

for(sum=0, i = 0; y!=0; )

[88]

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           #include<conio.h>
   printf("\nProcess No[%d] \t\t %d\t\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];
   31 | count =0;
32 | }
             count -oj
        if(i==NOP-1)
↓ 🖵 { i=0;
5 🗀
                   else if(at[i+1]<=sum) {</pre>
7
                    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);
           getch();
```

Output

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

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

Enter the Arrival and Burst time of the Process[2]
Arrival time is: 1

Enter the Arrival and Burst time of the Process[3]
Arrival time is: 5

Enter the Time Quantum for the process: 5

Process No Burst Time TAT Waiting Time
Process No[1] 2 1 -1
Process No[2] 3 4 1
Process No[3] 3 0

Average Turn Around Time: 0.0000000

Average Waiting Time: 2.6666667
```