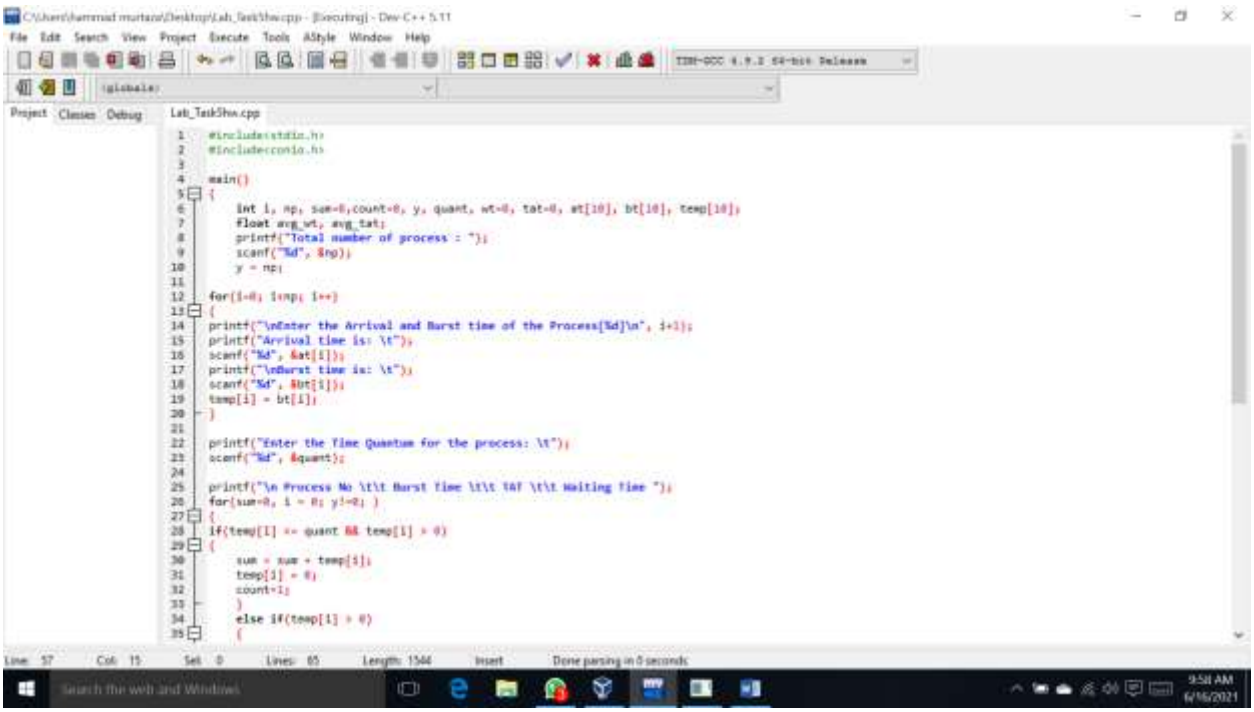
HAMMAD MURTAZA

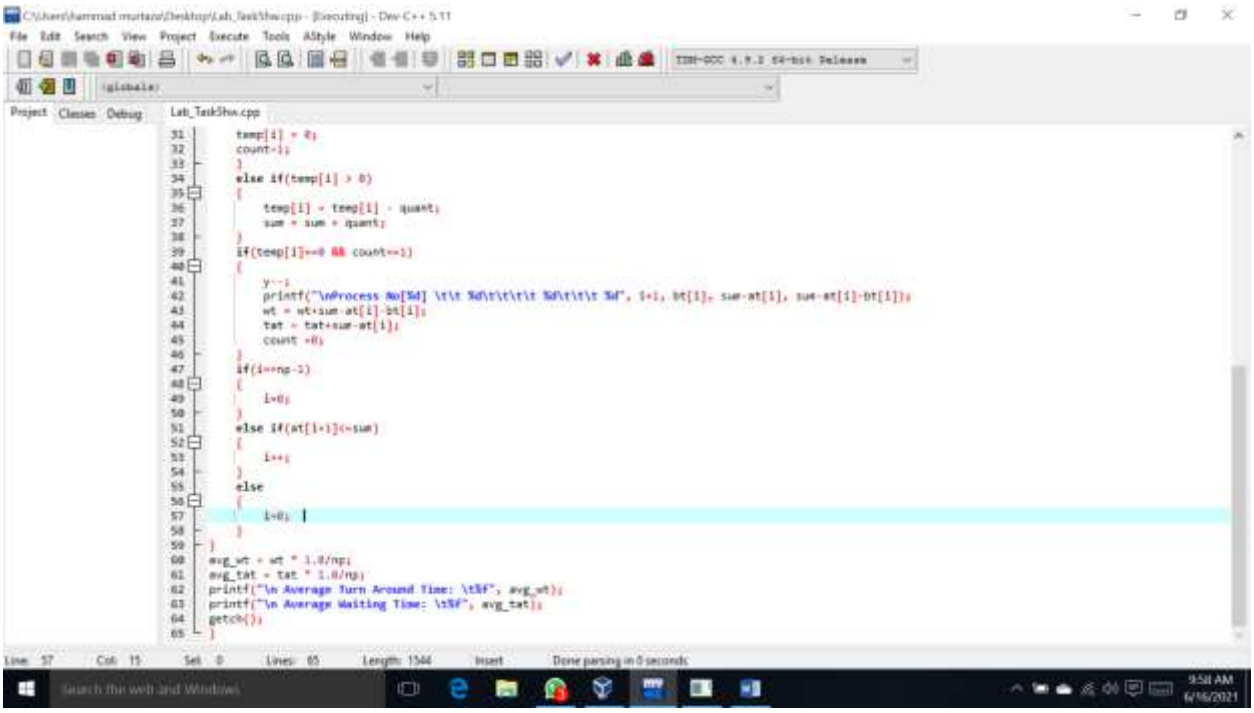
SID: 11146

OS LAB 5

Q1:

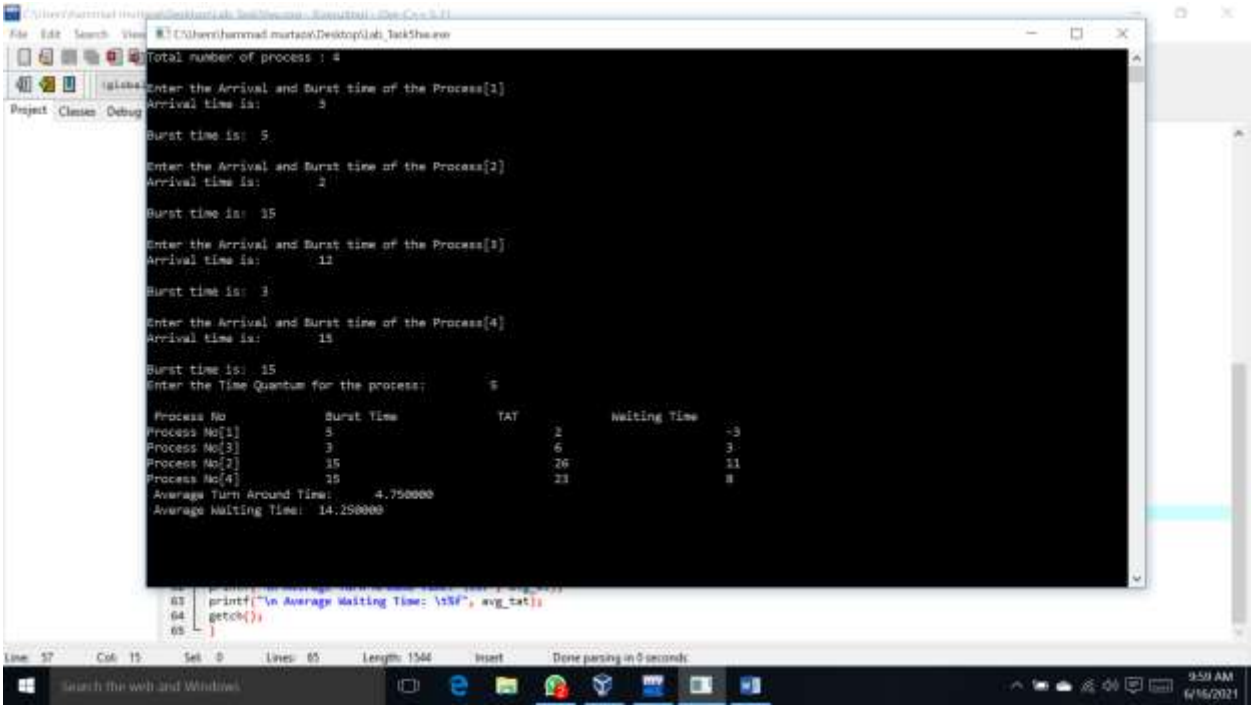
CODE:





```
    temp[i] = 0;
    count--;
    }
    else if(temp[i] > 0)
    {
        temp[i] = temp[i] - quant;
        sum = sum + quant;
    }
    if(temp[i]==0 && count==1)
    {
        y--;
        printf("\nProcess No[%d] \t\t %d\t\t\t\t\t %d\t\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==np-1)
    {
        i=0;
    }
    else if(at[i+1]<=sum)
    {
        i++;
    }
    else
    {
        i=0;
    }
}
avg_wt = wt * 1.0/np;
avg_tat = tat * 1.0/np;
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 : 4

Enter the Arrival and Burst time of the Process[1]
Arrival time is:        3

Burst time is:  5

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

Burst time is:  15

Enter the Arrival and Burst time of the Process[3]
Arrival time is:        12

Burst time is:  3

Enter the Arrival and Burst time of the Process[4]
Arrival time is:        15

Burst time is:  15
Enter the Time Quantum for the process:         5

 Process No             Burst Time              TAT             Waiting Time
Process No[1]           5                       2                       -3
Process No[3]           3                       6                       3
Process No[2]           15                      26                      11
Process No[4]           15                      23                      8
 Average Turn Around Time:      4.750000
 Average Waiting Time:  14.250000
```

Q2:

ANSWER:

C) SHORTEST JOB NEXT