OPERATING SYSTEM LAB TASK – 04

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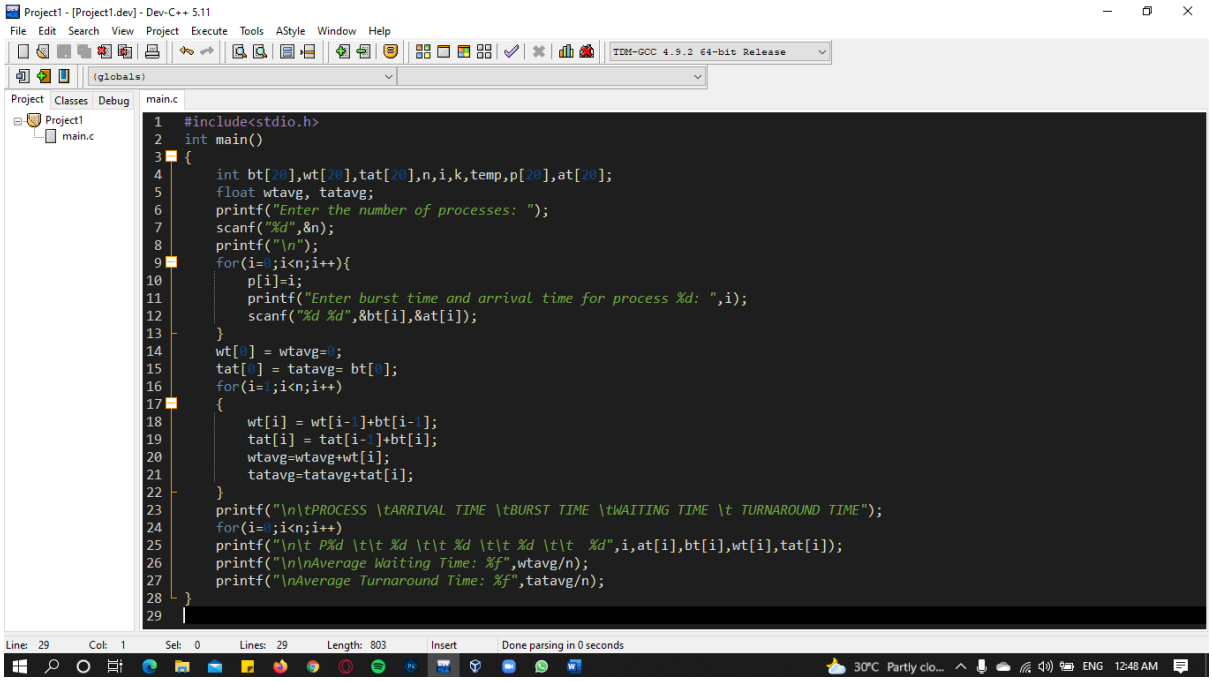
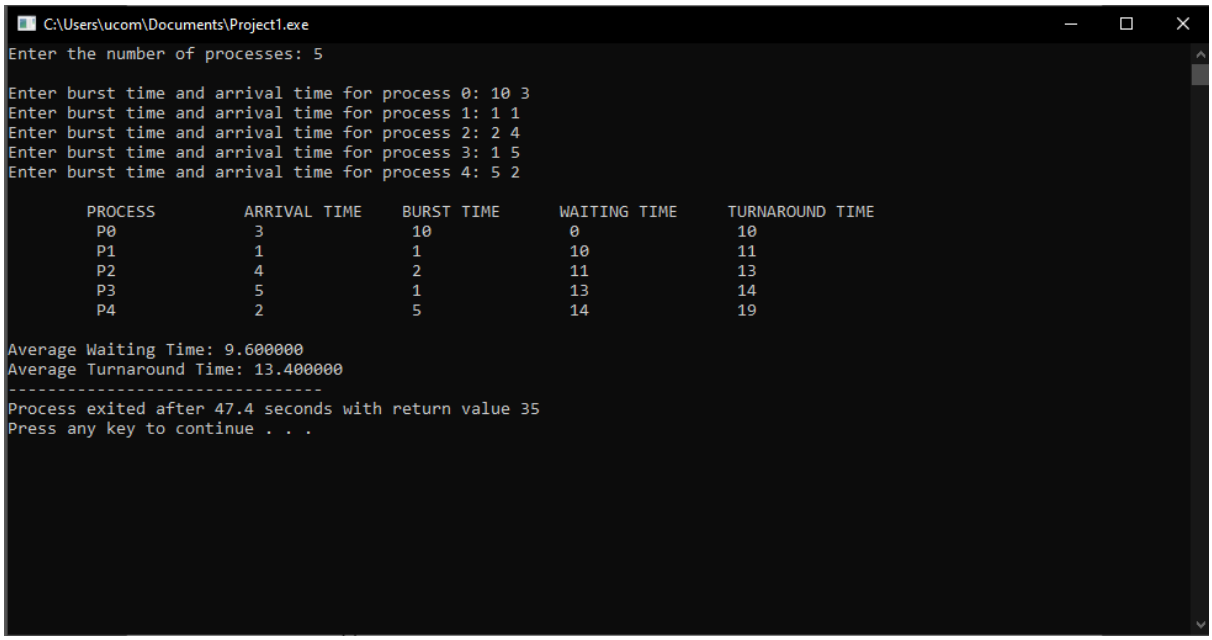
QUESTION – 1

CODE:

```
#include<stdio.h>
Int main()
{
        int bt[20],wt[20],tat[20],n,i,k,temp,p[20],at[20];
        float wtavg, tatavg;
        printf("Enter the number of processes: ");
        scanf("%d",&n);
        printf("\n");
        for(i=0;i<n;i++){
                p[i]=i;
                printf("Enter burst time and arrival time for process %d: ",i);
                scanf("%d %d",&bt[i],&at[i]);
        }
        wt[0] = wtavg=0;
        tat[0] = tatavg= bt[0];
        for(i=1;i<n;i++)
        {
    wt[i] = wt[i-1]+bt[i-1];
                tat[i] = tat[i-1]+bt[i];
                wtavg=wtavg+wt[i];
                tatavg=tatavg+tat[i];
        }
        printf("\n\tPROCESS \tARRIVAL TIME \tBURST TIME \tWAITING TIME \t
TURNAROUND TIME");
        for(i=0;i<n;i++)
        printf("\n\t P%d \t\t %d \t\t %d \t\t %d \t\t  %d",i,at[i],bt[i],wt[i],tat[i]);
        printf("\n\nAverage Waiting Time: %f",wtavg/n);
        printf("\nAverage Turnaround Time: %f",tatavg/n);
}
```

OUTPUT:





QUESTION – 2

ANSWER: b) 2