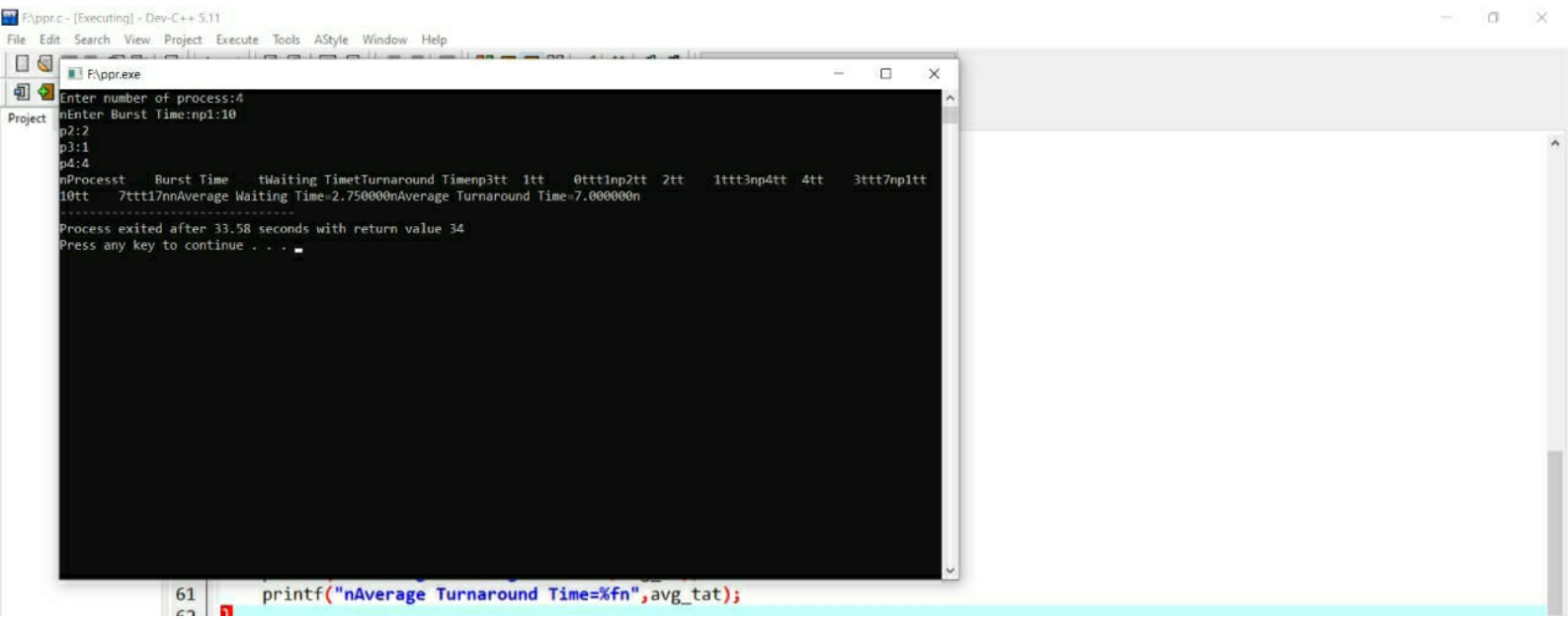
Name - Nirmal Topwal
Uni. Roll No - 2023073
Course - B.Sc IT

2.)
```
#include <stdio.h>
int main()
{
  int bt[20], p[20], wt[20], tat[20], i, j, n, total=0,
  pos, temp;
  float avg_wt, avg_tat;
  printf("Enter number of process : ");
  scanf("%d", &n);
  printf("\n Enter Burst Time : \n");
  for(i=0; i<n; i++)
  {
    printf("p %d:", i+1);
    scanf("%d", &bt[i]);
    p[i] = i+1;
  }
  // sorting of burst times
  for(i=0; i<n; i++)
  {
    pos = i
    for(j = i+1; j<n; j++)
    {
      if(bt[j] < bt[pos])
        pos = j;
    }
    temp = bt[i];
    bt[i] = bt[pos];
    bt[pos] = temp;
```

```
        temp = p[i];
        p[i] = p[pos];
        p[pos] = temp;
    }
    wt[0] = 0;
    for (i = 1; i < n; i++)
    {
        wt[i] = 0;
        for (j = 0; j < i; j++)
            wt[i] += bt[j];
        total += wt[i];
    }
    avg_wt = (float) total / n;
    total = 0;
    printf ("\n Process\t Burst Time \t Waiting Time \t Turnaround
            Time");
    for (i = 0; i < n; i++)
    {
        tat[i] = bt[i] + wt[i];
        total += tat[i];
        printf ("\np %d \t %d \t %d \t %d", p[i],
                bt[i], wt[i], tat[i]);
    }
    avg_tat = (float) total / n;
    printf ("\n\n Average Waiting Time = %f",
            avg_wt);
    printf ("\n Average Turnaround Time = %f\n", avg_tat);
}
```


F:\ppr.c - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
Project
F:\ppr.exe
Enter number of process:4
nEnter Burst Time:np1:10
p2:2
p3:1
p4:4
nProcesst Burst Time tWaiting TimetTurnaround Timenp3tt 1tt 0ttt1np2tt 2tt 1ttt3np4tt 4tt 3ttt7np1tt
10tt 7ttt17nnAverage Waiting Time=2.750000nAverage Turnaround Time=7.000000n
Process exited after 33.58 seconds with return value 34
Press any key to continue . . .
61 printf("nAverage Turnaround Time=%fn",avg_tat);