Question-2. //(Program to implement SJF CPU Scheduling Algorithm//

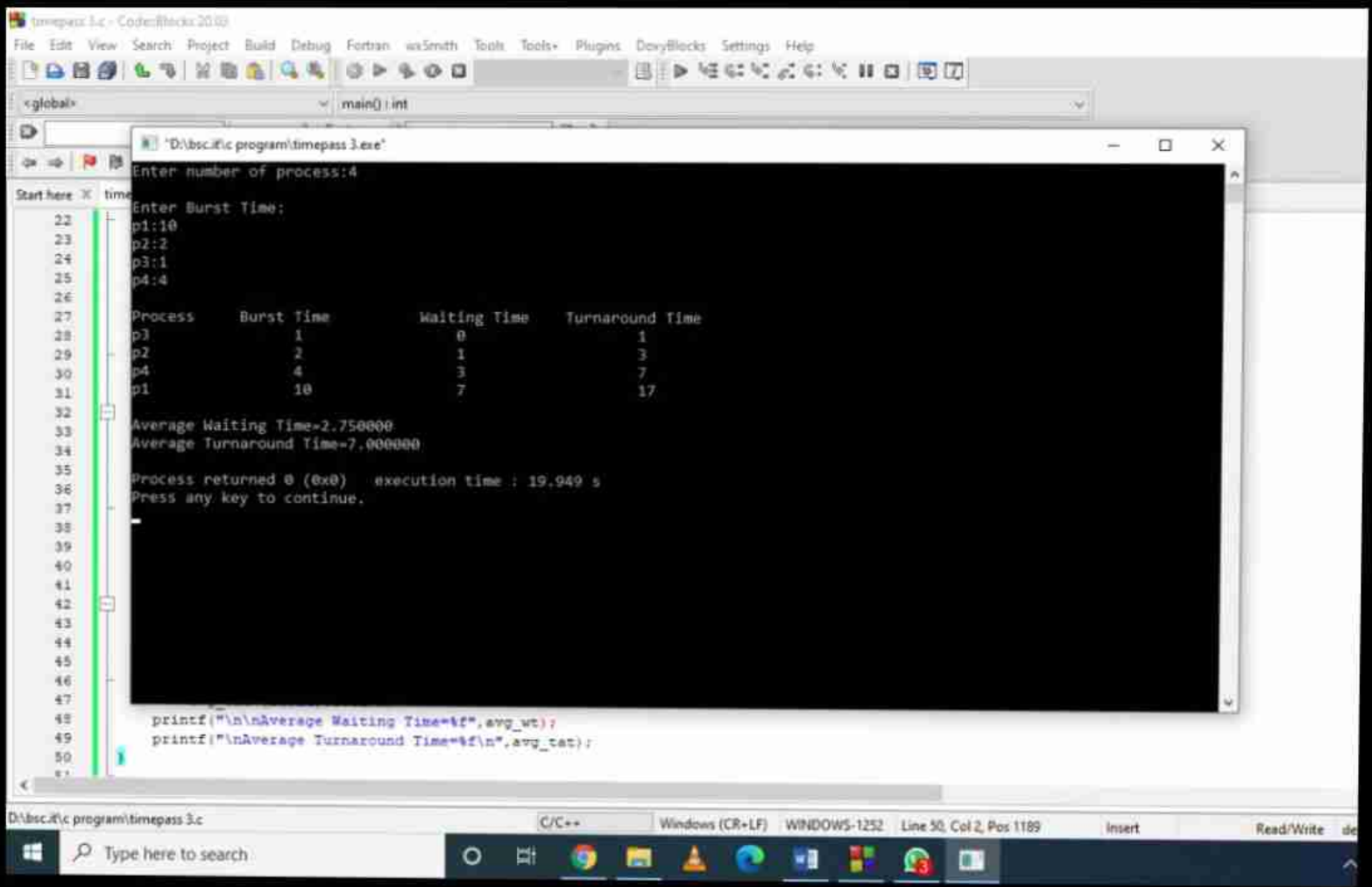
CODE:-

```
#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);
  Print f ("n Enter Burst Time: n");
  for (i= 0; i<n ; i++)
   {
    print f (" p%d:", i+1);
    scan f (" %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;
```

```
Print f ("n process Burst time twai ting timetorn
 around Time");
 for (i=0; i<n; i++)
{
   tat [i]= bt[j]+wt[i];
   total+ = tat[i];
   printf ("n p %dtt %dtt %dttt %d", p[i], bt[i],
       wt [i], tat [i]);
    }
   avg_tat = (float) total /n;
   printf ("nn Average Waiting Time = %f", avg_wt);
   printf (" n Average Turnaround time = %fn", avg_tat);
   return 0;
   }
```

Prems
22.06.2021


timepass 3.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
"D:\bsc.it\c program\timepass 3.exe"
Enter number of process:4
Enter Burst Time:
p1:10
p2:2
p3:1
p4:4
Process Burst Time Waiting Time Turnaround Time
p3 1 0 1
p2 2 1 3
p4 4 3 7
p1 10 7 17
Average Waiting Time=2.750000
Average Turnaround Time=7.000000
Process returned 0 (0x0) execution time : 19.949 s
Press any key to continue.
printf("\n\nAverage Waiting Time=%f",avg_wt);
printf("\nAverage Turnaround Time=%f\n",avg_tat);
D:\bsc.it\c program\timepass 3.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 50, Col 2, Pos 1189
Insert
Read/Write
Type here to search