```
tat[i] = bt[i] + wt[i]; // calculate
   turnaround time
      total_t += tat[i];
      printf("\n p%d\t\t %d\t\t %d\t\t
%d\t\t %d", p[i], bt[i], wt[i], tat[i]);
  }

avg_tat = (float)total_t / n ; // average
   turnaround time
      printf("\n\n Average waiting
 Time = %f", avg_wt);
   printf("\n Average Turnaround
 Time = %f\n", avg_tat);
 return 0;
}
```

Date = 22/5/2021

Abhay

```
}
    temp = bt[i];
    bt[i] = bt[pos];
    bt[pos] = temp;

    temp = p[i];
    p[i] = p[pos];
    p[pos] = temp;
}

wt[0]=0;            // waiting time for first process will be zero
// calculate waiting time
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; // average waiting time
total =0;

printf("\n Process\t Burst Time \tWaiting Time \t Turnaround Time");
for (i=0; i<n; i++)
{
```

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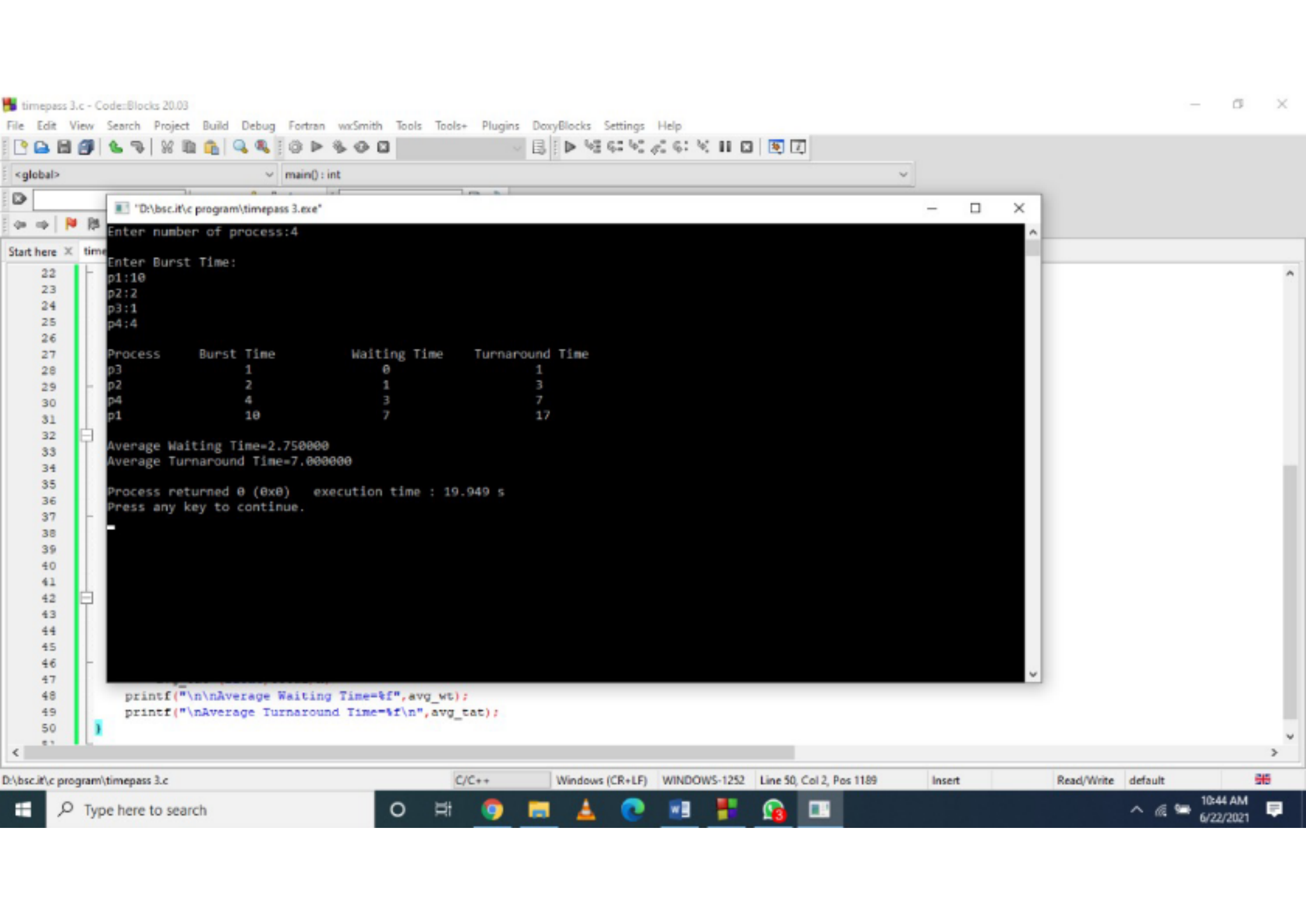
Course: BSc IT

Q2
```
#include<stdio.h>
void 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("\nEnter Burst Time:\n");
for(i=0;i<n;i++)
{
  printf("p%d:",i+1);
  scanf("%d",&bt[i]);
p[i]=i+1;      // contains process number
}
//sorting burst time in ascending order using
selection sort for(i=0;i<n;i++)
{
 pos=i;
 for(j=i+1;j<n;j++)
{
   if(bt[j]<bt[pos])
     pos=j;
```


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
default
Type here to search
10:44 AM
6/22/2021