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Course - BSc (IT)
Semester - 2nd
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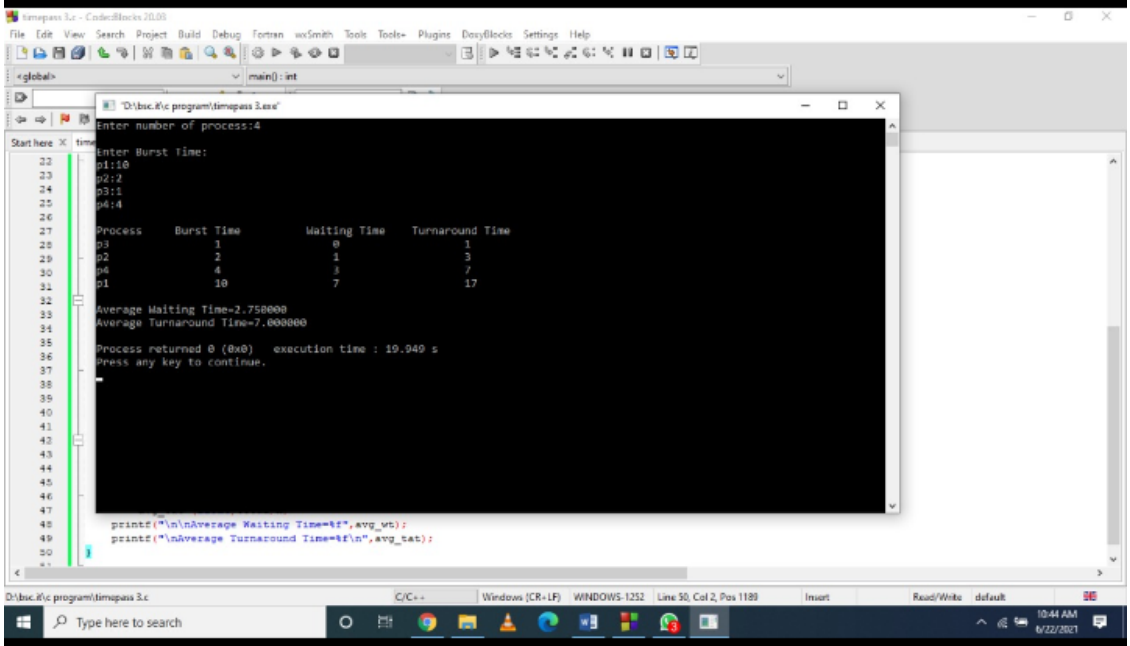
```
#include <stdio.h>
    int main()
{
    int bt[20], p[20], wt[20], tat[20], i, j, n
total = 0, pos, temp;

float avg_wt, avg_tat;

print(" Enter number of process ");
 Scanf("%d", &n);

printf("\nEnter Burst Time : n");
  for (i=0; i<n ; i++)
{
  printf("\n Enter p%d : ", i+1);
   Scanf ("%d", & bt [i]);
    p[i] = i+1;
}
    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];
    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 of Turnaround Time\n");

    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], wt
        [i], tat [i]);
}

avg_tat = (float) total / n;
print ("\n\n Average Waiting Time = %f", avg_wt);
print ("\n Average Turnaround Time = %f", avg_tat);

return 0;
}
```


"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);
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