MID TERM (Practical)

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(1)

OPERATING SYSTEM

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Ques 2. Program to implement SJF.

```
#include <stdio.h>
#define max 30.
int main()
{ int i, j, n, t, p[max], bt[max], wt[max],
                                tat[max];
float awt=0, atat=0;
printf("Enter the number of process\n");
scanf("%d", &n);
printf("Enter the process number\n");
for(i=0; i<n; i++)
  { scanf("%d", &p[i]);
  }
printf("Enter the burst time of the process\n");
for(i=0; i<n; i++)
  { scanf("%d", &bt[i]);
```

```
for(i=0; i<n; i++)
 {
  for(j=0; j<n-i-1; j++)
  {
   if(bt[j] > bt[j+1])
    {
      t= bt[j];
      bt[j]= bt[j+1];
      bt[j+1]= t;

      t = p[j];
      p[j] = p[j+1];
      p[j+1]= t;
    }
  }
}
printf("process\t Burst time\t Waiting Time\t
        Turnaround time\n");
for(i=0; i<n; i++)
 {
   wt[i]=0;
   tat[i]=0;
  for(j=0; j<i; j++)
   { wt[i]= wt[i]+ bt[j];
   }
```

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```
tat[i]= wt[i]+ bt[i];
awt = awt + wt[i];
atat = atat + tat[i];
printf("%d\t %d\t\t %d\t\t %d\n", p[i],
                    bt[i], wt[i], tat[i]);
}
 awt = awt/n;
 atat = atat/n;
printf("Average Waiting Time = %f\n", awt);
printf("Average Turnaround Time = %f\n", atat);

return 0;
}
```

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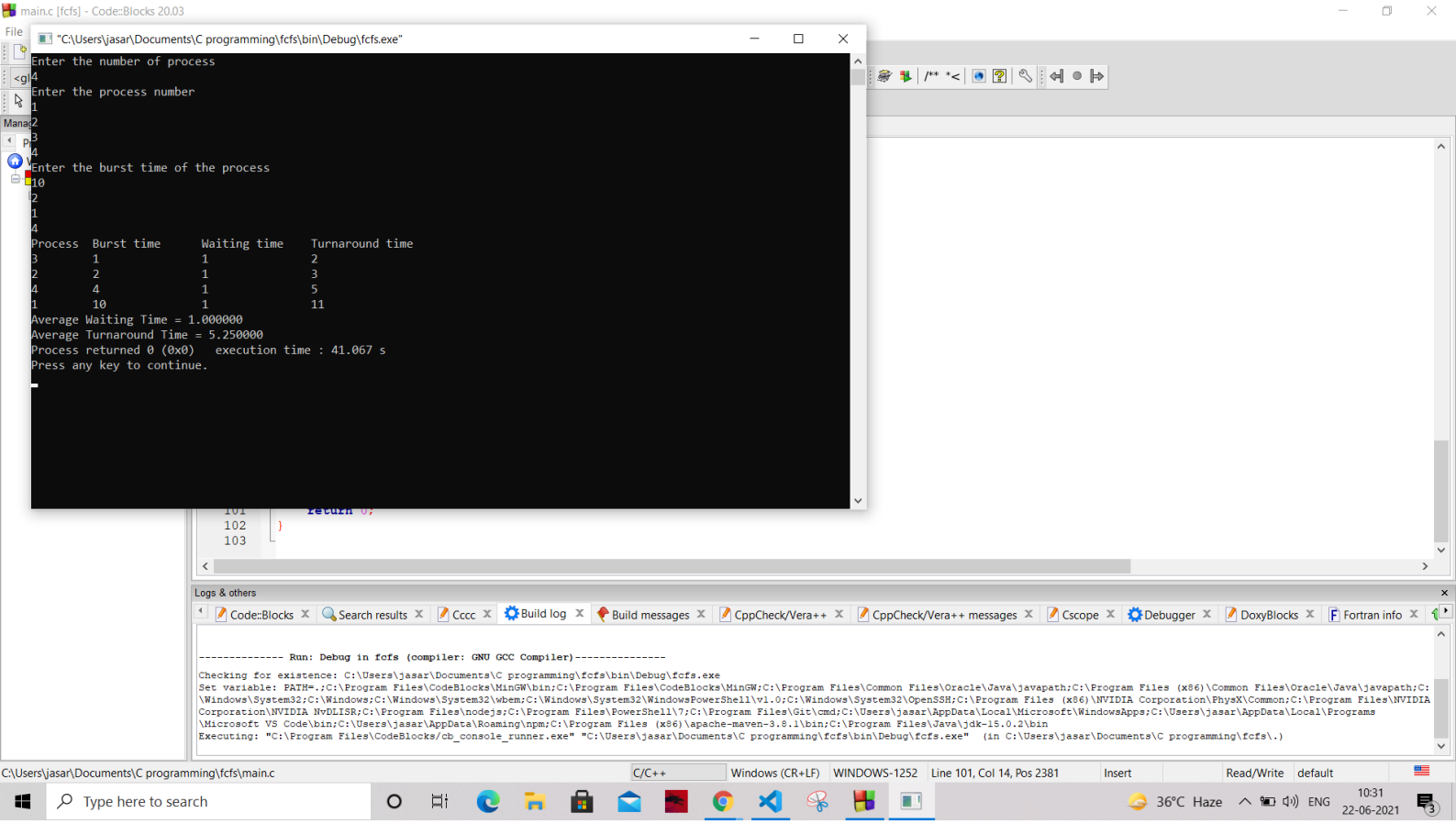
main.c [fcfs] - Code::Blocks 20.03
"C:\Users\jasar\Documents\C programming\fcfs\bin\Debug\fcfs.exe"
Enter the number of process
4
Enter the process number
1
2
3
4
Enter the burst time of the process
10
2
1
4
Process Burst time Waiting time Turnaround time
3 1 1 2
2 2 1 3
4 4 1 5
1 10 1 11
Average Waiting Time = 1.000000
Average Turnaround Time = 5.250000
Process returned 0 (0x0) execution time : 41.067 s
Press any key to continue.
return 0;
}
Logs & others
Code::Blocks
Search results
Cccc
Build log
Build messages
CppCheck/Vera++
CppCheck/Vera++ messages
Cscope
Debugger
DoxyBlocks
Fortran info
Run: Debug in fcfs (compiler: GNU GCC Compiler)
Checking for existence: C:\Users\jasar\Documents\C programming\fcfs\bin\Debug\fcfs.exe
Executing: "C:\Program Files\CodeBlocks/cb_console_runner.exe" "C:\Users\jasar\Documents\C programming\fcfs\bin\Debug\fcfs.exe" (in C:\Users\jasar\Documents\C programming\fcfs\.)
C:\Users\jasar\Documents\C programming\fcfs\main.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 101, Col 14, Pos 2381
Insert
Read/Write
default
Type here to search
36°C Haze
ENG
10:31
22-06-2021