

LAB TASK #8

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Q1

The screenshot displays a C++ IDE with a source code editor and a console window. The source code is a number guessing game where the user has 10 attempts to guess a secret number (6). The program uses a do-while loop to repeatedly prompt the user for a guess until it is correct. The console window shows the program's output, including the prompts and the user's input.

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int secret_num=6;
6     int guess;
7     do
8     {
9         cout<<"what is the secret number from 1-10? ";
10        cin>>guess;
11    }
12    while ( guess!=secret_num);
13    cout<<" congratulations you have guessed the right number ";
14    cin>>secret_num;
15    return 0;
16 }
```

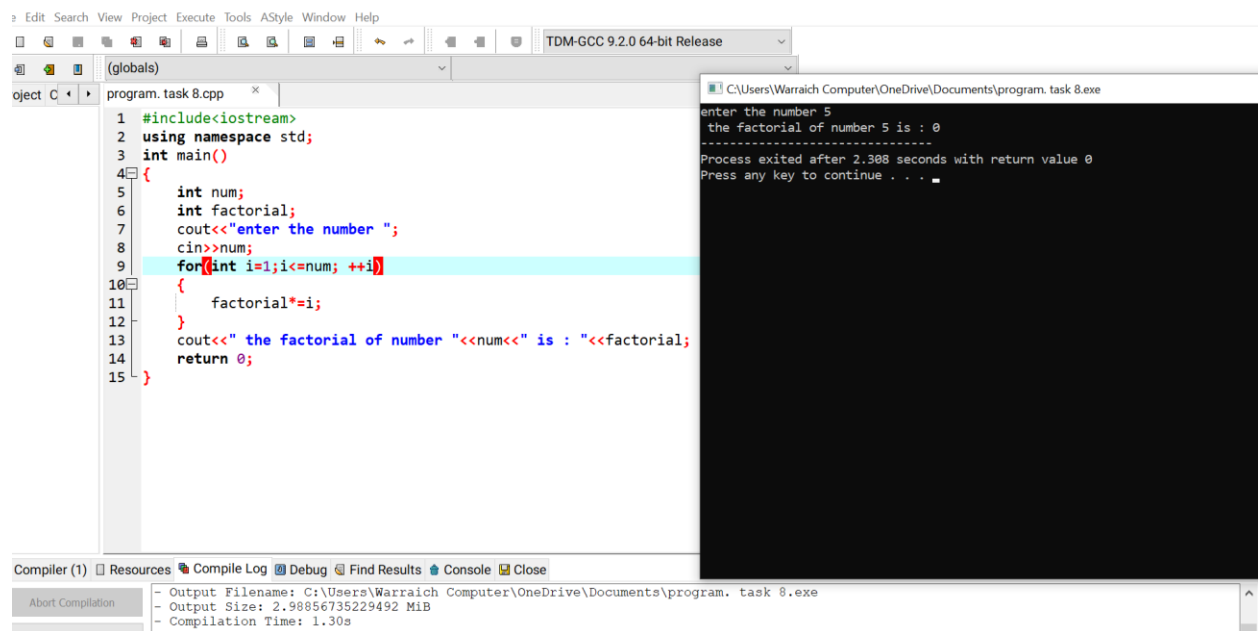
The console window shows the following output:

```
C:\Users\Warraich Computer\OneDrive\Documents\pf.exe
what is the secret number from 1-10? 8
what is the secret number from 1-10? 6
congratulations you have guessed the right number
```

The compiler log at the bottom shows the following details:

- Output Filename: C:\Users\Warraich Computer\OneDrive\Documents\pf.exe
- Output Size: 2.98854827880859 MiB
- Compilation Time: 1.38s

Q2



The screenshot shows the TDM-GCC 9.2.0 64-bit Release IDE. The editor window displays a C++ file named 'program.task.8.cpp' with the following code:

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int num;
6     int factorial;
7     cout<<"enter the number ";
8     cin>>num;
9     for(int i=1;i<=num; ++i)
10    {
11        factorial*=i;
12    }
13    cout<<" the factorial of number "<<num<<" is : "<<factorial;
14    return 0;
15 }
```

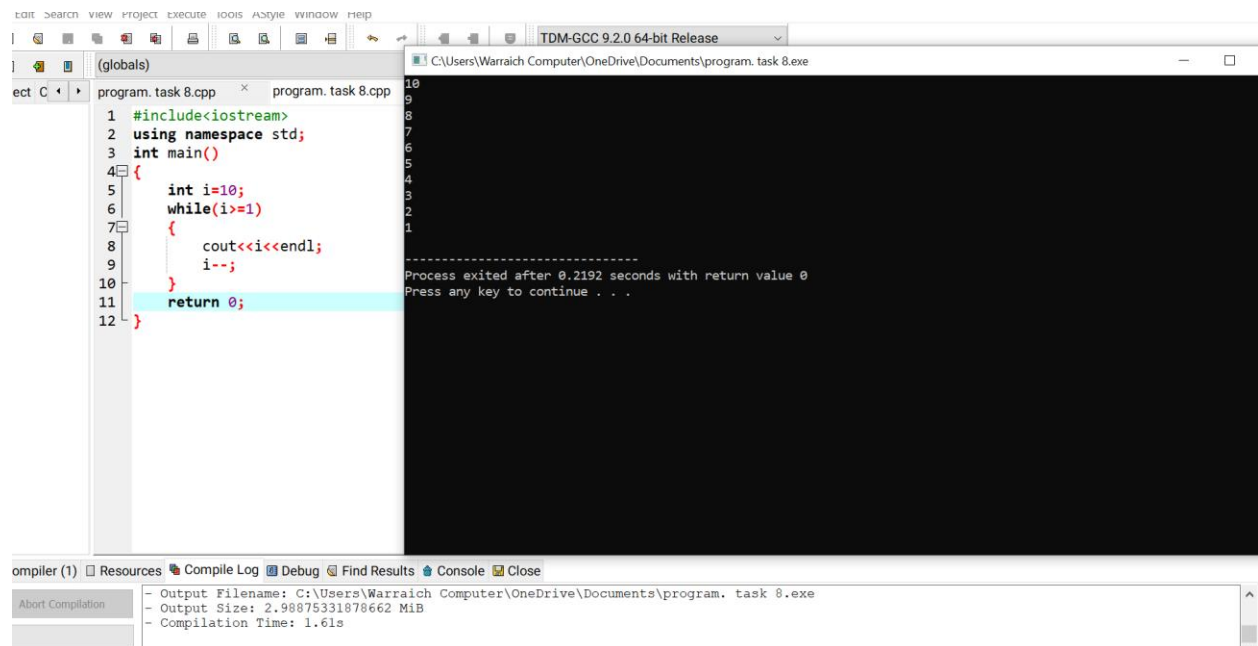
The console window on the right shows the program's execution output:

```
enter the number 5
the factorial of number 5 is : 0
-----
Process exited after 2.388 seconds with return value 0
Press any key to continue . . .
```

The bottom status bar indicates the compiler (TDM-GCC 9.2.0 64-bit Release) and provides compilation details:

- Output Filename: C:\Users\Warraich Computer\OneDrive\Documents\program.task.8.exe
- Output Size: 2.98856735229492 MiB
- Compilation Time: 1.30s

Q3



The screenshot shows the TDM-GCC 9.2.0 64-bit Release IDE. The editor window displays a C++ file named 'program.task.8.cpp' with the following code:

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int i=10;
6     while(i>=1)
7     {
8         cout<<i<<endl;
9         i--;
10    }
11    return 0;
12 }
```

The console window on the right shows the program's execution output:

```
10
9
8
7
6
5
4
3
2
1
-----
Process exited after 0.2192 seconds with return value 0
Press any key to continue . . .
```

The bottom status bar indicates the compiler (TDM-GCC 9.2.0 64-bit Release) and provides compilation details:

- Output Filename: C:\Users\Warraich Computer\OneDrive\Documents\program.task.8.exe
- Output Size: 2.98875331878662 MiB
- Compilation Time: 1.61s

Q4

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int i=2;
6     while(i<=20)
7     {
8         cout<<i<<endl;
9         i+=2;
10    }
11    return 0;
12 }
```

Process exited after 0.1175 seconds with return value 0
Press any key to continue . . .

Compiler (1) | Resources | Compile Log | Debug | Find Results | Console | Close

Output Filename: C:\Users\Warraich Computer\OneDrive\Documents\program. task 8.exe
Output Size: 2.98875331878662 MiB

Q5

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int i=1;
6     while(i<=20)
7     {
8         cout<<i<<endl;
9         i+=2;
10    }
11    return 0;
12 }
```

Process exited after 0.1288 seconds with return value 0
Press any key to continue . . .

Compiler (1) | Resources | Compile Log | Debug | Find Results | Console | Close

Output Filename: C:\Users\Warraich Computer\OneDrive\Documents\program. task 8.exe