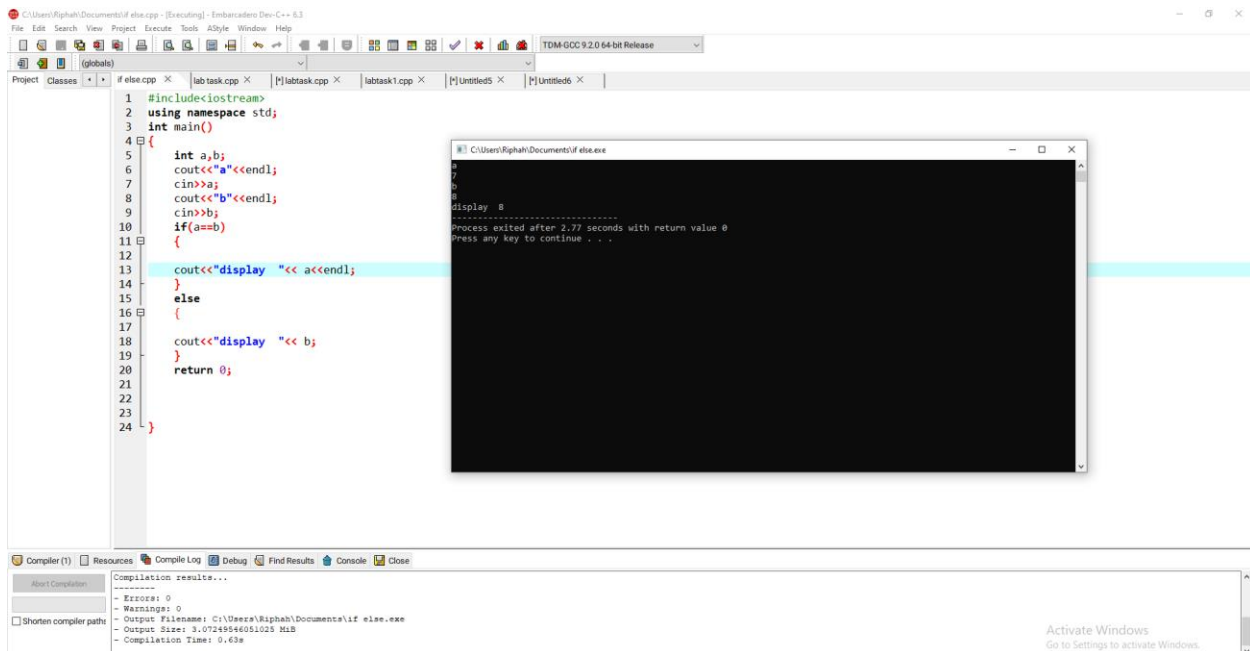


Name: Eman Khurram

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LabTask

Task 1:



The screenshot shows an IDE with the following code in `if else.cpp`:

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int a,b;
6     cout<<"a"<<endl;
7     cin>>a;
8     cout<<"b"<<endl;
9     cin>>b;
10    if(a==b)
11    {
12        cout<<"display "<<a<<endl;
13    }
14    else
15    {
16        cout<<"display "<<b;
17    }
18    return 0;
19 }
```

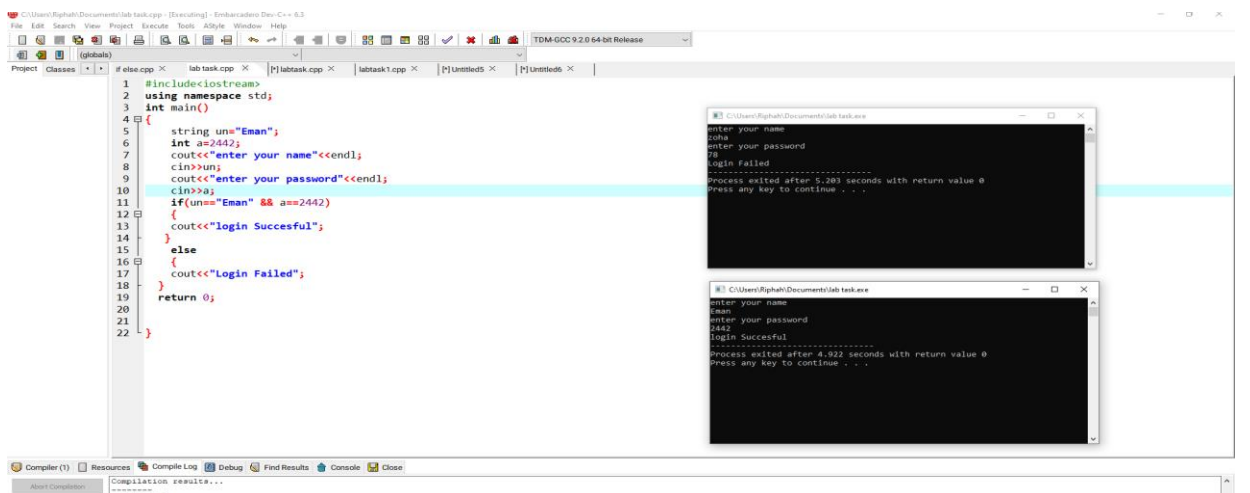
The execution output window shows:

```
display #
.....
Process exited after 2.77 seconds with return value 0
Press any key to continue . . .
```

Compilation results:

```
-----
Errors: 0
Warnings: 0
Output Filename: C:\Users\Riphah\Documents\if else.exe
Output Size: 3,0724956051025 MiB
Compilation Time: 0.63s
```

Task 2:



The screenshot shows an IDE with the following code in `lab task.cpp`:

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     string un="Eman";
6     int a=2442;
7     cout<<"enter your name"<<endl;
8     cin>>un;
9     cout<<"enter your password"<<endl;
10    cin>>a;
11    if(un=="Eman" && a==2442)
12    {
13        cout<<"login Succesful";
14    }
15    else
16    {
17        cout<<"Login Failed";
18    }
19    return 0;
20 }
```

The execution output window shows two scenarios:

Scenario 1 (Failed Login):

```
enter your name
Eman
enter your password
2442
Login Failed
.....
Process exited after 5.203 seconds with return value 0
Press any key to continue . . .
```

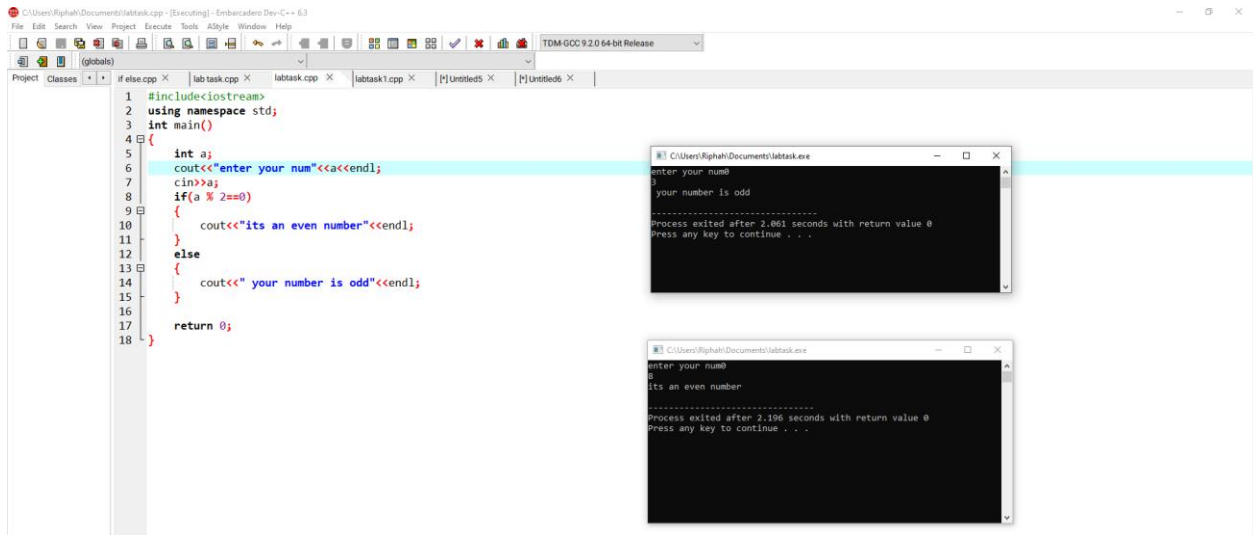
Scenario 2 (Successful Login):

```
enter your name
Eman
enter your password
2442
Login Succesful
.....
Process exited after 4.922 seconds with return value 0
Press any key to continue . . .
```

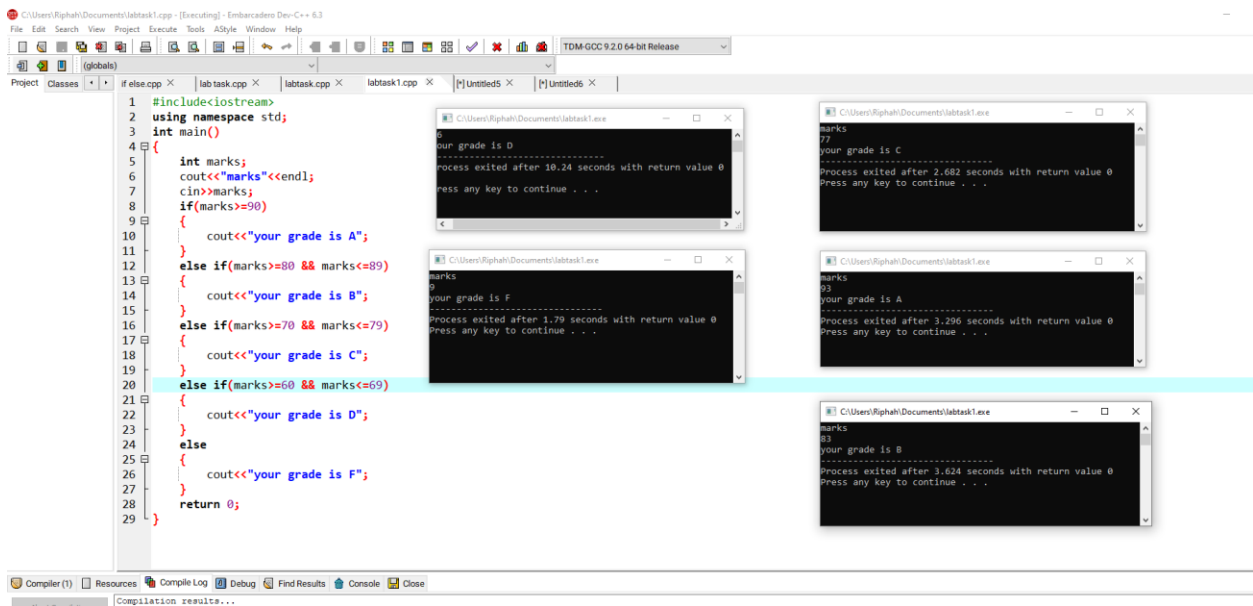
Compilation results:

```
-----
Errors: 0
Warnings: 0
Output Filename: C:\Users\Riphah\Documents\lab task.exe
Output Size: 3,0724956051025 MiB
Compilation Time: 0.63s
```

Task 3:



Task 4:



Task 5:

The screenshot displays a C++ IDE with a source code editor on the left and three console windows on the right. The source code is a program that prompts the user for a temperature and recommends clothing based on the input. The console windows show the program's execution for three different temperature inputs: 0, 23, and 33.

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int temp;
6     cout<<"enter your temperature"<<temp<<endl;
7     cin>>temp;
8     if(temp<=0)
9     {
10         cout<<"you should wear Heavy coat,gloves and scarf"<<endl;
11     }
12     else if(temp>0 && temp<10)
13     {
14         cout<<"you should wear Coat,sweater and a hat"<<endl;
15     }
16     else if(temp>10 && temp<20)
17     {
18         cout<<"you should wear Light jacket and long sleeves"<<endl;
19     }
20     else if(temp>20 && temp<30)
21     {
22         cout<<"you should wear T-shirt and shorts"<<endl;
23     }
24     else if (temp>30 && temp<40)
25     {
26         cout<<"you should wear Shorts,sunglasses and sunblock";
27     }
28     return 0;
29 }
30
31 }
```

Execution 1 (temp=0):

```
enter your temperature0
0
you should wear Coat,sweater and a hat
.....
Process exited after 4.162 seconds with return value 0
Press any key to continue . . .
```

Execution 2 (temp=23):

```
enter your temperature23
23
you should wear T-shirt and shorts
.....
Process exited after 1.782 seconds with return value 0
Press any key to continue . . .
```

Execution 3 (temp=33):

```
enter your temperature33
33
you should wear Shorts,sunglasses and sunblock
.....
Process exited after 0.893 seconds with return value 0
Press any key to continue . . .
```