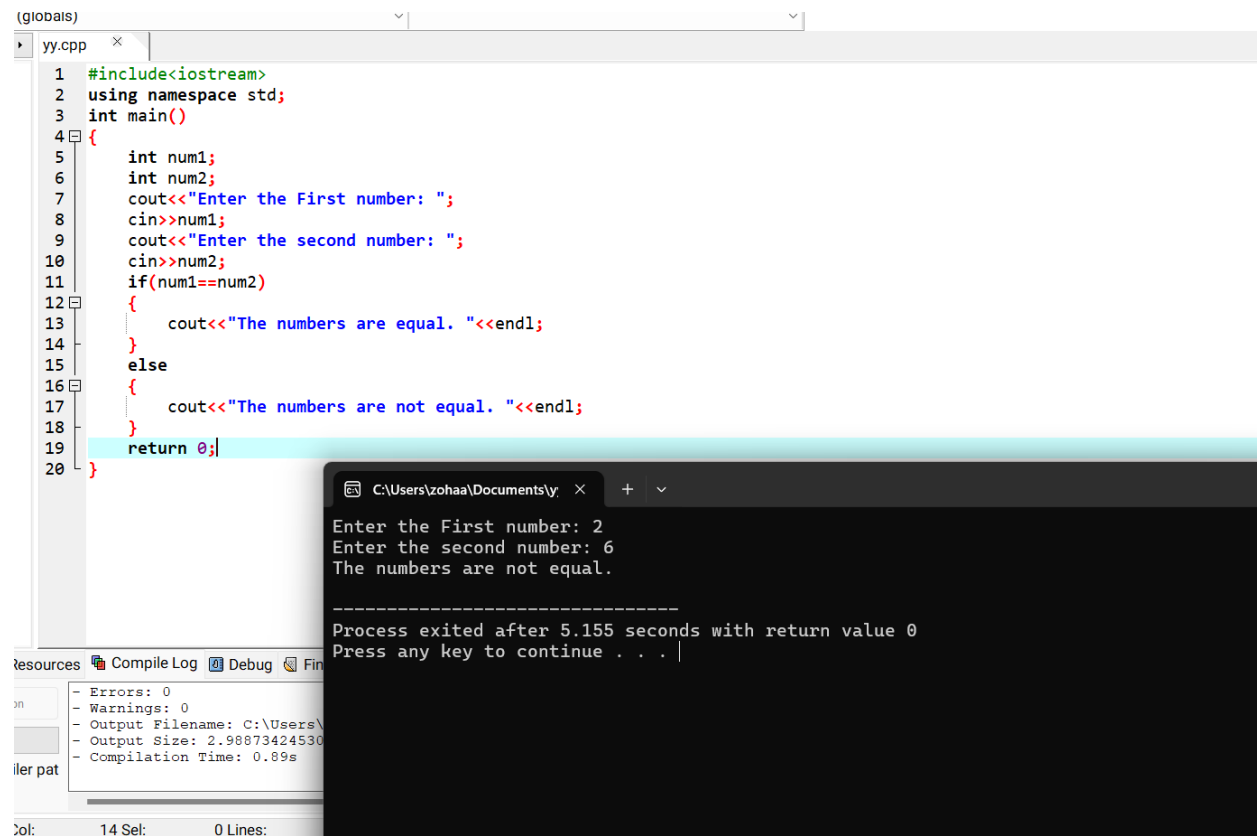


Assignment no. 4:

Task no. 1:

Check if Two Numbers are Equal



```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int num1;
6     int num2;
7     cout<<"Enter the First number: ";
8     cin>>num1;
9     cout<<"Enter the second number: ";
10    cin>>num2;
11    if(num1==num2)
12    {
13        cout<<"The numbers are equal. "<<endl;
14    }
15    else
16    {
17        cout<<"The numbers are not equal. "<<endl;
18    }
19    return 0;
20 }
```

Enter the First number: 2
Enter the second number: 6
The numbers are not equal.

Process exited after 5.155 seconds with return value 0
Press any key to continue . . .

Resources Compile Log Debug Fin
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\
- Output Size: 2.98873424530
- Compilation Time: 0.89s
ler pat
Sol: 14 Sel: 0 Lines:

Task no. 2:

Simple Login System

The screenshot displays a C++ IDE with a file named `yy.cpp`. The code implements a simple login system. It includes `<iostream>`, uses the `std` namespace, and defines a `main` function. Inside `main`, it declares `string` variables for `username` and `password`, and sets constants for `correctUsername` ("user") and `correctPassword` ("pass"). It prompts the user to enter a username and password, then checks if they match the correct values. If they do, it prints "Login Successful."; otherwise, it prints "Login Failed.". The program returns 0.

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     string username;
6     string password;
7     string correctUsername= "user";
8     string correctPassword= "pass";
9     cout<<"Enter username: ";
10    cin>>username;
11    cout<<"Enter password: ";
12    cin>>password;
13    if(username==correctUsername&&password==correctPassword)
14    {
15        cout<<"Login Successful."<<endl;
16    }
17    else
18    {
19        cout<<"Login Failed. "<<endl;
20    }
21    return 0;
22 }
```

The output window shows the program's execution. It prompts for a username and password, and then displays "Login Successful." after the user enters "user" and "pass". The output also shows the process exit time and a prompt to press a key to continue.

```
C:\Users\zohaa\Documents\yy
Enter username: user
Enter password: pass
Login Successful.

-----
Process exited after 4.952 seconds with return value 0
Press any key to continue . . .
```

The bottom of the IDE shows the Compile Log, which indicates that the program compiled successfully with no errors or warnings. The output filename is `C:\Users\zohaa\Documents\yy.exe`, the output size is 2.99796009063721 MiB, and the compilation time is 0.64s.

Task no. 3:

Check if a Number is Even or Odd

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int num;
6     cout<<"Enter a number: ";
7     cin>>num;
8     if(num%2==0)
9     {
10        cout<<num<<" is even."<<endl;
11    }
12    else
13    {
14        cout<<num<<" is odd."<<endl;
15    }
16
17    return 0;
18 }
```

Enter a number: 2
2 is even.

Process exited after 2.483 seconds with return value 0
Press any key to continue . . .

Errors: 0
Warnings: 0
Output Filename: C:\Users\zohaa\Documents\yy.exe
Output Size: 2.98873424530029 MiB
Compilation Time: 0.61s

Task no. 4:

Determine Grade Based on Test Score

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int score;
6     cout<<"Enter your test score: ";
7     cin>>score;
8     if(score>=90)
9     {
10         cout<<"Grade A"<<endl;
11     }
12     else if(score>80)
13     {
14         cout<<"Grade B"<<endl;
15     }
16     else if (score>=70)
17     {
18         cout<<"Grade C"<<endl;
19     }
20     else if (score>=60)
21     {
22         cout<<"Grade D"<<endl;
23     }
24     else
25     {
26         cout<<"Grade F"<<endl;
27     }
28     return 0;
}
```

Enter your test score: 40
Grade F

Process exited after 3.341 seconds with return value 0
Press any key to continue . . .

Resources Compile Log Debug Find Results Console

Errors: 0
Warnings: 0
Output Filename: C:\Users\zohaa\Documents\yy
Output Size: 2.98922252655029 MiB
Compilation Time: 0.59s

Task no. 5:

Clothing Recommendations Based on Temperature

```
is/
cpp
#include<iostream>
using namespace std;
int main()
{
    float temperature;
    cout << "Enter the current temperature: ";
    cin >> temperature;
    if (temperature < 0)
    {
        cout << "Clothing Recommendation: Heavy coat, gloves, scarf." << endl;
    }
    else if (temperature >= 0 && temperature <= 10)
    {
        cout << "Clothing Recommendation: Coat, sweater, and a hat." << endl;
    }
    else if (temperature > 10 && temperature <= 20)
    {
        cout << "Clothing Recommendation: Light jacket, long sleeves." << endl;
    }
    else if (temperature > 20 && temperature <= 30)
    {
        cout << "Clothing Recommendation: T-shirt and shorts." << endl;
    }
    else
    {
        cout << "Clothing Recommendation: Shorts, sunglasses, and sunblock." << endl;
    }
    return 0;
}
```

es Compile Log Debug Find Results

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\zohaa\Documents\y\
- Output Size: 2.98922252655029 MiB
- Compilation Time: 0.61s

43 Sel 0 Lines 301 End

C:\Users\zohaa\Documents\y\ x + v

```
Enter the current temperature: 32
Clothing Recommendation: Shorts, sunglasses, and sunblock.
-----
Process exited after 3.664 seconds with return value 0
Press any key to continue . . .
```