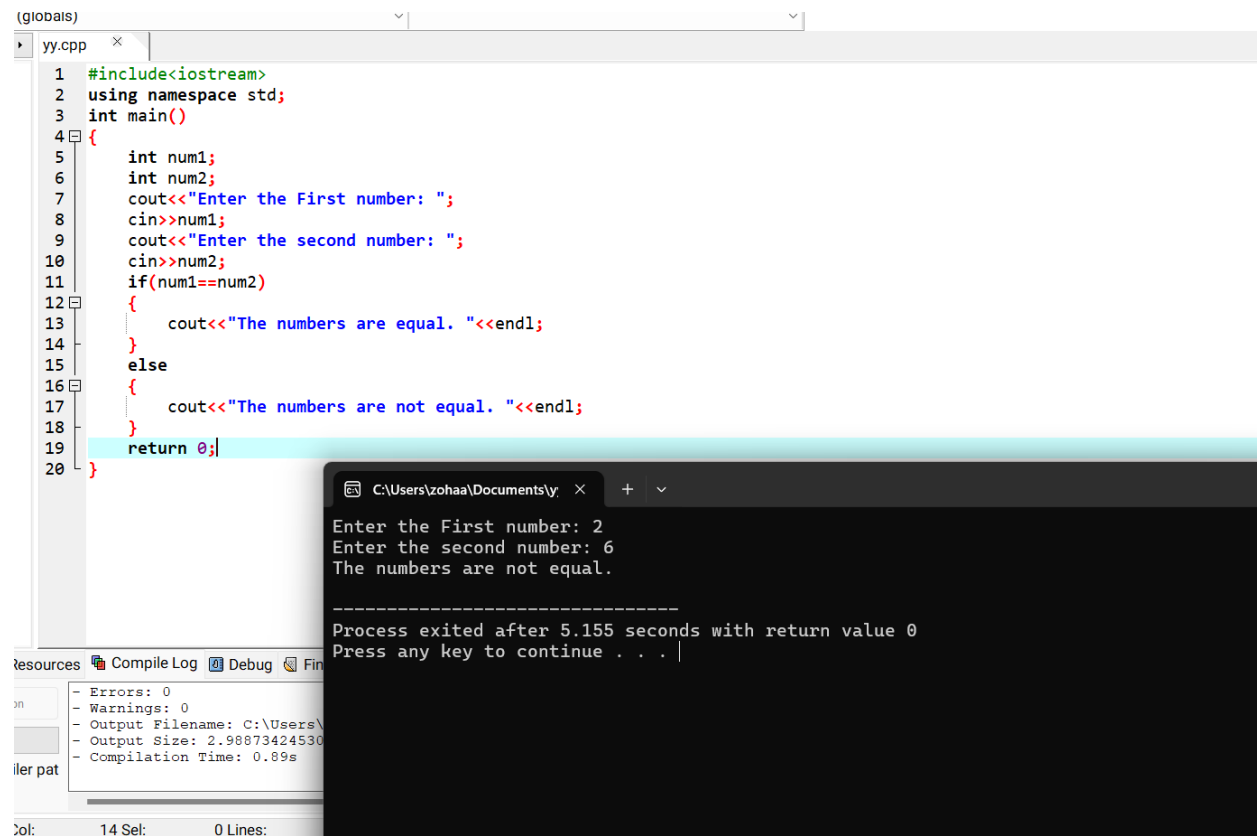# Assignment no. 4:

Task no. 1:

Check if Two Numbers are Equal

```cpp
#include<iostream>
using namespace std;
int main()
{
    int num1;
    int num2;
    cout<<"Enter the First number: ";
    cin>>num1;
    cout<<"Enter the second number: ";
    cin>>num2;
    if(num1==num2)
    {
        cout<<"The numbers are equal. "<<endl;
    }
    else
    {
        cout<<"The numbers are not equal. "<<endl;
    }
    return 0;
}
```

```
C:\Users\zohaa\Documents\y
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 . . .
```

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\
- Output Size: 2.9887342453C
- Compilation Time: 0.89s
```

Task no. 2:

Simple Login System

```cpp
#include<iostream>
using namespace std;
int main()
{
    string username;
    string password;
    string correctUsername= "user";
    string correctPassword= "pass";
    cout<<"Enter username: ";
    cin>>username;
    cout<<"Enter password: ";
    cin>>password;
    if(username==correctUsername&&password==correctPassword)
    {
        cout<<"Login Successful."<<endl;
    }
    else
    {
        cout<<"Login Failed. "<<endl;
    }
    return 0;
}
```

```
Enter username: user
Enter password: pass
Login Successful.

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

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\zohaa\Documents\yy.ex
- Output Size: 2.99796009063721 MiB
- Compilation Time: 0.64s
```

Task no. 3:

Check if a Number is Even or Odd

```cpp
#include<iostream>
using namespace std;
int main()
{
    int num;
    cout<<"Enter a number: ";
    cin>>num;
    if(num%2==0)
    {
        cout<<num<<" is even."<<endl;
    }
    else
    {
        cout<<num<<" is odd."<<endl;
    }

    return 0;
}
```

Console output:
```
Enter a number: 2
2 is even.

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

Task no. 4:

Determine Grade Based on Test Score

```cpp
#include<iostream>
using namespace std;
int main()
{
    int score;
    cout<<"Enter your test score: ";
    cin>>score;
    if(score>=90)
    {
        cout<<"Grade A"<<endl;
    }
    else if(score>80)
    {
        cout<<"Grade B"<<endl;
    }
    else if (score>=70)
    {
        cout<<"Grade C"<<endl;
    }
    else if (score>=60)
    {
        cout<<"Grade D"<<endl;
    }
    else
    {
        cout<<"Grade F"<<endl;
    }
    return 0;
```

Console output:
```
Enter your test score: 40
Grade F

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

Compile Log:
```
- 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

```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;
```

Errors: 0
Warnings: 0
Output Filename: C:\Users\zohaa\I
Output Size: 2.98922252655029 Mi
Compilation Time: 0.61s

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C:\Users\zohaa\Documents\y   ×   +   ∨

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 . . .