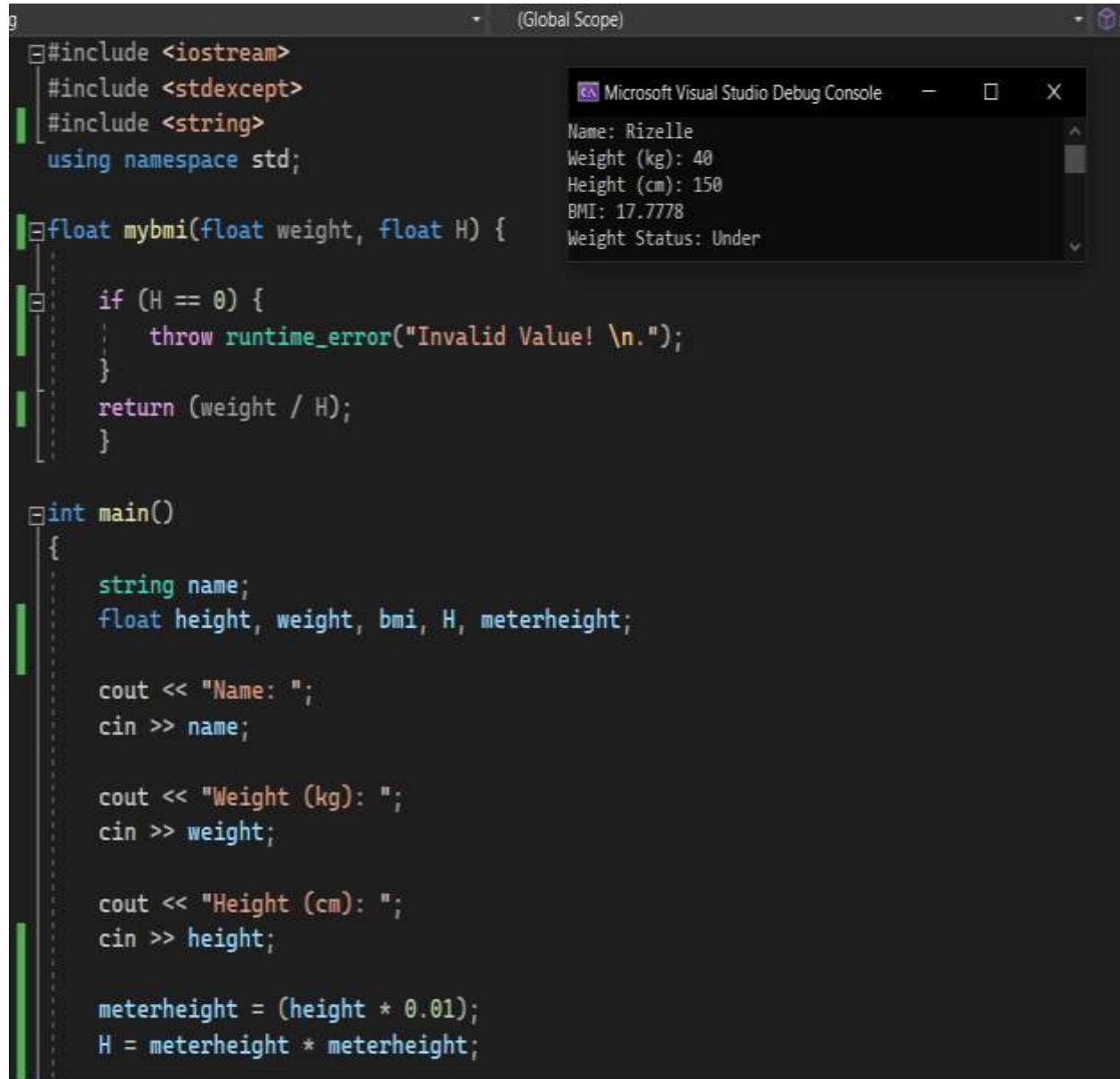| Assignment 4.1: Error Handling	
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CPE11S5	Engr. Ryan Francisco

```cpp
#include <iostream>
#include <stdexcept>
#include <string>
using namespace std;

float mybmi(float weight, float H) {

    if (H == 0) {
        throw runtime_error("Invalid Value! \n.");
    }
    return (weight / H);
    }

int main()
{
    string name;
    float height, weight, bmi, H, meterheight;

    cout << "Name: ";
    cin >> name;

    cout << "Weight (kg): ";
    cin >> weight;

    cout << "Height (cm): ";
    cin >> height;

    meterheight = (height * 0.01);
    H = meterheight * meterheight;
```
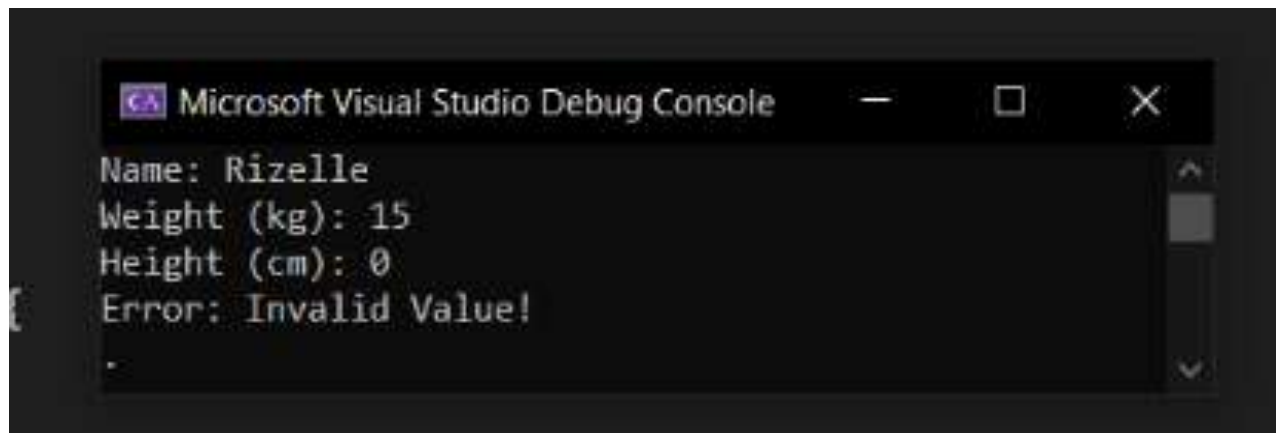
Microsoft Visual Studio Debug Console

```
Name: Rizelle
Weight (kg): 40
Height (cm): 150
BMI: 17.7778
Weight Status: Under
```

```cpp
    bmi = weight / H;
    cout << "BMI: " << bmi << "\n";
    if (bmi < 18.5) {
        cout << "Weight Status: Under";
    }
    else if (bmi >= 18.5 && bmi <= 24.9) {
        cout << "Weight Status: Normal";
    }
    else if (bmi >= 25.0 && bmi <= 29.9) {
        cout << "Weight Status: Over";
    }
    else if (bmi >= 30.0 && bmi <= 34.9) {
        cout << "Weight Status: Obese (Class I)";
    }
    else if (bmi >= 35.0 && bmi <= 39.9) {
        cout << "Weight Status: Obese (Class II)";
    }
    else if (bmi > 40.0) {
        cout << "Weight Status: Obese (Class III)";
    }
    try {
        bmi = mybmi(weight, height);
    }
    catch (runtime_error&e) {
        cout << "Error: " << e.what();
    }
    return 0;
}
```

No issues found

Conclusions:

This activity requires to make a program that computes the BMI. However, this activity is under the error handling. It means that I need to do something about the exception. While working in my program, I've noticed that if I try to input 0 in height, it will automatically print out "inf". It means that it is infinity which is a value that is unable to compute for the BMI of the user and will only lead to confusion. So, I used the throw, try, and catch statement. I've also research about the runtime error which is used or a type of object to be thrown as an exception. Also, I've included the "#include <stdexcept>" to use the runtime error or else I won't be able to run my program properly. Additionally, I was having a trouble earlier because even though my program works without any issues, my program was still unable to print out the error message even when I put 0 in height. Then, after trying to find out what's the issue in my codes for too many times, I've noticed that I input the "height" on my function instead of "H" that's why it's unable to read the error.