Sabila Bernard

Project 1

CMCS 204

Professor Tarek

02/10/2020

Test Plan:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Input** | **Actual Input** | **Expected Output** | **Actual Output** | **Did the test pass?** |
| 1 | Temp:  30  Wind chill:  24 | Temp:  30  Wind Chill:  24 | 16.2658557001 | 16.265855700066673 | Yes. |
| 2 | Temp:  -30  Wind Chill:  30 | Temp:  -30  Wind Chill  30 | -66.6101559812 | -66.61015598120697 | Yes. |
| 3 | Temp:  -45  Wind Chill:  60 | Temp:  -45  Wind Chill:  60 | -98.0738449937 | -98.09634499372375 | Yes. |

Screenshots:

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A screen shot of a computer

Description automatically generated

Learning experience:

The programming for this project was simple and straightforward. Initially I had thought that I had to include a while loop and was overthinking about the project. Then I had come to realize that I did not have to validate the user’s input and deleted my while loop code. I learned that initializing variables and constants are very important for organization even when you do not necessarily have to do it, but it is a very useful habit to form especially in the future with bigger projects. This practice makes it easier to change value of variables and constants when needed.

I was struggling initially with the flowchart and realized that I was not using the correct format and symbols. I think this has to do with me rushing the assignment and I definitely should not do that again. I learned that knowing the correct format is very important to know as this is how it is practice in a professional setting. The symbols also have specific meanings to better explain the process in the flowchart and is clearer to use than making up my own rules and having people misunderstanding them. In terms of the actual programming, I was struggling to also learn the scanner object as I was used to C++ input format and did not understand why it could not just be simple like C++ for inputting. There is probably a good reason why it was made that way.

As I mentioned earlier, the project was fairly easy and straightforward. I would like to think I was pretty successful with the program. I went through some struggles and I expected that considering this is a new language for me. The concept of the Java language is similar to C++ with a few modifications like the Scanner object, for example.