Create a Program

**Due: Sun Feb 4, 2024 11:59pm**

Ungraded, 100 Possible Points100 Points Possible

**Details**

Write a program that can be used to compute the area of a rectangular floor space, the calculation is area = width \* length. The example code in the reading Section 2.7 can be used as a starting point.

For full points the program must have the following:

* **Good style:** Use good naming conventions for identifiers (variable name), for example use lower camel case. Review reading Section 2.3.
* **Usability:** Always prompt the user for input so they know what to do and provide meaningful output messages. For example, here is what a run of the program might look like:

What is the floor width?

10

What is the floor length?

5

The area is 50.

* **Documentation:** Add a comment to every line of the code explaining what it does. In the future you will not need to document every line of code, instead you can document blocks of code or entire functions, but for practice every line of your program should be documented.

For example:

// prompt the user for their age

cout << "Enter your age: " << endl;

// input the users age into the variable called age

cin >> age;

* **Testing:** Don't submit your solution until you have tested it. The code must compile, execute and produce the correct output for any input. In the future you will learn how to deal with invalid user input, such as text instead of a number, for now just make sure your program works for an expected inputs.

The above four items are important, you will be expected to incorporate all four in every code you write for this class.