Homework 8

Thishomeworkincludesshortanswerquestionsandaprogrammingassignment. Theshortanswer questions are worth 5 points each. The programming assignment is worth 30 points. The short answer questions may cover topics that are in the text, but were not covered in the lectures. Push a preliminary version of the programming assignment to Github before Wednesday’s class. Push the ﬁnal version of your source code, Makeﬁle, and a text ﬁle with your short answer questions to Github before 5PM Friday.

1. What does the friend keyword do? The friend keyword grants access to all members of the class or functions.

2. Why should you never use using namespace std;? can cause naming collisions use std::string

3. Describe fours ways to return an object from a method.

1st you can return an object copy

2nd return object from the heap with = new

3rd you can return a reference

4th best way is not to return anything and just use the .set function to set the new values for the instance.

4. What does the mutable keyword do? It means it can be changed, like strings in c++

5. What are the three ways a class can contain objects in C++?

Actual object

Reference

pointer

6. What is a Singleton? A singleton is a class that can only have one instance which you access with a get function to get that lonely instance.