CSCI 1300 Introduction to Computer Programming
Instructor: Knox

Assignment 8: Project Proposal
Due Sunday, November 12th by 6 pm

Assignment 8: Final Project
Due Sunday, November 19th by 6 pm (no bonus available)

Your completed projects will be due Sunday, November 19th, 2017 by 6:00 pm. The minimum requirements for the project can be found at the end of this write-up. Please look into it and come up with a good project idea. It can be anything ranging from a management system, game, automating some process, etc. Remember, having a project that meets the bare minimum requirements will only fetch you a maximum of 70 points out of 100. As part of the final C++ project submission, you need to include a document describing your project. The project proposal is the initial version of that document.

Before you submit the project, you need to design and plan your implementation. This assignment requires you to submit your idea and the how you plan to complete you project. You must supply a write-up for the project proposal containing the following requirements, but you can always write more.

- What is your project?
- What is the goal of this project?
- Attach your complete .h files with comments to provide some basic idea of the functions.
- Explain why you designed your class this way.
- Why have you chosen these data members and how do you plan to use them?
- Explain how the design meets the requirement.

Your TA will review your proposal to make sure that you are not overly ambitious or not doing enough for this project. If the TA determines that your project needs to be altered, they will contact you for a meeting.

Submitting Your project proposal to Moodle:
You must submit your proposal to Moodle to get full credit for the assignment. Create a .zip file which includes project proposal write-up and all your .h files to be submitted to Moodle.

The minimum requirements that your project must meet are listed below. A project meeting only the minimum requirements will only receive up to a 70 out of 100 possible points.

Minimum Requirements:

- 2+ user defined classes
- 4+ data members per class (including at least one array of user defined objects)
- Appropriate methods for each class (including getters and setters)
- Implementation for the 2 user defined classes must include at least:
    - 2+ if / if-else statements
    - 2+ while loops
    - 2+ for loops
    - File IO for reading and writing data members of an object

Collaboration:

All code written for this assignment must be your own. You *may* work together to come up with project ideas and to work through errors. Make sure to give credit to those you work with!

You *may* *not* use code provided or taken from anyone or anywhere else. All code must be your own. In particular, your projects should have different classes, different implementations, and different behavior.

Final Submission:

The final version of your project will be due on November 19th at 6:00 pm (no bonus available). You must submit a .zip file to Moodle which includes:

- A description of your project, how it works, and how to use it (1-2 pages, use your project proposal as a starting point)
- Screenshots showing your project in action
- All .h and .cpp files including a main, correctly indented and commented

Interview grading for the project will begin on November 27th, the Monday after Fall break. 30 points will be awarded based on your work above and beyond the minimum requirements.