

CMSC 143: Introduction to Object-Oriented Programming with Robots

Assignment 5: A Final Program

— or —

A Commencement Program

Due December 12, 2011

Sure, this is the final assignment in **this** class, but it's the start of an empowered, creative computing future.

In the last assignment, you should use the knowledge you've gained in this course to write a program that is useful to you or a friend. You are free to choose any problem you'd like, with the provisions that your program should be substantial and object-oriented. For example, a program that speaks your name five times would not be classified as substantial. You should use as many classes as necessary to write your program in a clear way, but you should use at least one.

You will present your project during class on December 12th or 14th. You should submit three different items in a zip file:

1. A power point presentation describing the problem and your program design. What is the problem? Why is the problem interesting? How are you approaching the problem? What classes and functions will you need? You should supply class diagrams for your classes.
2. A set of tests that you can run to see if your program, or parts of your program, are working correctly.
3. Your program.

Learning Objectives

- Design and Implement a Useful Program
- Apply Object-Oriented Programming Techniques