CSCI-C 200

**Lab 8 – Object Oriented Programming**

**Description**

Think of a scenario when you will need to define at least two classes to implement. Define at least two classes that are related to each other, e.g. one class definition must use the object defined in another class, like the Address class and the Employee class used in the class demo. Define the class files, and create an executable file to demonstrate object-oriented programming.

A few examples:

* Student, Major, Class, Department
* Computer, Hard drive, Memory
* Book, Author, Publisher
* Dress, Designer, Buyer

**Rubric**

* 1. Each class must have three or more properties, with at least two different types of properties (string, integer, floating point, Boolean, …) (10’)
  2. One of the properties of a class is an object instance of another class. (10’)
  3. All properties are of significance to the object. (10’)
  4. Constructors and str methods are defined correctly. (10’)
  5. All setters and getter methods are defined. (10’)
  6. Have at least one method in each class to define an important action applied to this object. (10’)
  7. Have an executable file to demonstrate the object creation and the use of at least one getter, one setter and one action method. Program runs and generates meaningful outputs. (30’)
  8. Follow professional coding style. (10’)
  9. Follow good coding practice. ( - 10’ for each bad coding occurrence).

**Extra Credits (1 – 10’)**

Object definition and execution demonstrate superior complexity and quality.

**Submission**

Submit all your files on Canvas.