CSCI-C 200

**Lab 9 – Object Oriented Programming: Inheritance**

**Description**

Use the objects you designed for lab 8, add a child class to one of the existing classes, or create a new set of parent/child class. Demonstrate the use of all the objects.

**Rubric**

* 1. All objects must be connected, through inheritance or use of an object inside another object. (5’)
  2. Each class definition is isolated in a single file. (5’)
  3. A child class must
     1. have its own str method (5’)
     2. have at least two methods of its own (5’)
     3. have at least two properties of its own. (5’)
     4. inherit at least one property from the parent class. (5’)
     5. Inherit at least one method from the parent class. (5’)
     6. Overwrite at least one property and at least one method (5’)
  4. In the executable file, must demonstrate -
     1. A parent object is created and used. (5’)
     2. A child object is created and used. (5’)
     3. Invoking at least one parent method. (5’)
     4. Invoking at least one child method. (5’)
     5. Demonstrate method overwrite. (5’)
     6. Change at least one parent property value through a setter method. (5’)
     7. Change at least one child property value through a setter method. (5’)
     8. Print out all parent object information. (5’)
     9. Print out all child object information. (5’)
  5. The parent/child relationship makes sense. (5’)
  6. Have all the setter and getter methods. (5’)
  7. Follow professional coding style. (5’)
  8. 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.