CISC 3120 Fall 2012 Lab II.2

1. Writing your first class:

- Write a program that defines the class point. The class should contain two private instance fields x and y.
- The class should contain public API methods to set and retrieve the values of x and y.
- The class should contain 3 constructors.

One should take no arguments and set x and y to sensible default values.

One should take two arguments, and set x and y to these values.

One should take just one argument, and should use this to set x and y in some way that you define.

2. Using the class:

- Get a(nother) copy of the MovingEllipse project from Prof. Parsons.
- Modify the MovingEllipse project so that the coordinates of the ellipse are held in a point object. (You will likely only need to modify the file MovingGraphicsComponent.java)
- Make sure you can compile and run this version of the project and that it behaves as before (it can be tricky to make sure you have made all the necessary changes).

3. A second class.

• Now write a class MyEllipse which has two instance fields: a point object and a field that holds the color of the ellipse.

The class should have private instance fields, public API methods, and at least one constructor.

- Modify the MovingEllipse project to use the MyEllipse class to hold relevant information about the ellipse that is displayed by the program.
- Note that you will have to decide how to store the color data in MyEllipse, and how to use this to decide what color paintComponent invokes.