**ICS 108 – Object-Oriented Programming**

**Lab # 8 – Objects and Classes**

**Objectives:**

In this lab, the following topic will be covered:

1. Objects and Classes

**Task**

Design a class named **Rectangle** to represent a rectangle. The class contains:

* Two **double** data fields named **width** and **height** that specify the width and height of the rectangle.
* A no-argument constructor that creates a default rectangle. The default values are **1** for both **width** and **height**.
* A constructor that creates a rectangle with the specified **width** and **height**.
* A method named **getArea()** that returns the area of this rectangle.
* A method named **getPerimeter()** that returns the perimeter.

Write a test program that creates two **Rectangle** objects—one with width **4** and height **40**, and

the other with width **3.5** and height **35.9**. Display the width, height, area, and perimeter of each rectangle in this order.