Student Name: Christopher Felix

Class and Section: COP 2800 (4925)

Project: Enabling GeometricObject comparable

Problem Description:

(Enabling GeometricObject comparable) Modify the GeometricObject class to implement the Comparable interface, and define a static max method in the GeometricObject class for finding the larger of two GeometricObject objects.

Draw the UML diagram and implement the new GeometricObject class.

Write a test program that uses the max method to find the larger of two circles and the larger of two rectangles.

Design: Draw the UML class diagram here

```
/*************************************************
*           GeometricObject          *
*----------------------------------------------*
* -color: String                  *
* -filled: boolean                  *
* -dateCreated: java.util.Date          *
*----------------------------------------------*
* GeometricObject()                *
* GeometricObject(color: String, filled: boolean) *
* +getColor(): String              *
* +setColor(color: String): void          *
```

```
* +isFilled(): boolean                    *
* +setFilled(filled: boolean): void           *
* +getDateCreated(): java.util.Date          *
* +getMax(GeometricObject: o1,              *
* --------------------------              *
*GeometricObject: o2): GeometricObject     *
*         --------------------              *
* +getArea(): double                    *
* +getPerimeter(): double               *
**************************************************/
```

The "-" symbol indicates private visibility, meaning these members can only be accessed within the class itself.

The "+" symbol indicates public visibility, meaning these members can be accessed from outside the class.

Coding:

Submit the following items:

1. Print this Word file and Submit to me before the class on the due day.

2. Compile, Run, and Submit