### Close Lab 6: 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 <a href="GeometricObject">GeometricObject</a> class.

Write a test program that uses the  $\underline{\text{max}}$  method to find the larger of two circles and the larger of two rectangles.

# Design:

Draw the UML class diagram here

## Coding:

```
public class Test {
  // Main method
  public static void main(String[] args) {
    // Create two comparable circles
    Circle1 circle1 = new Circle1(5);
   Circle1 circle2 = new Circle1(4);
    // Display the max circle
    Circle1 circle = (Circle1)GeometricObject1.max(circle1, circle2);
    System.out.println("The max circle's radius is " +
     circle.getRadius());
    System.out.println(circle);
  }
}
abstract class GeometricObject1 implements Comparable {
  // Implement it
// Circle.java: The circle class that extends GeometricObject
class Circle1 extends GeometricObject1 {
  // Implement it
```

### Submission:

Follow our class coding standard to complete this lab, check out for credit.