

Molly Smith  
Dr. Arias  
Software Development 1  
4/19/17

Lab 10

13.1

GeometricObject
<ul style="list-style-type: none"><li>- color: String</li><li>- filled: boolean</li><li>- dateCreated: java.util.Date</li></ul>
<pre>#GeometricObject() #GeometricObject(color: string, filled: boolean) + getColor(): String + setColor(color: String): void + isFilled(): boolean + setFilled(filled: boolean): void + getDateCreated(): java.util.Date + toString(): String + <i>getArea(): double</i> + <i>getPerimeter(): double</i></pre>



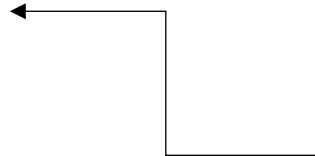
Triangle
<ul style="list-style-type: none"><li>- side1: double</li><li>- side2: double</li><li>- side3: double</li><li>- s: double</li></ul>
<pre>+ Triangle() + Triangle(side1: double, side2: double, side3: double) + Triangle(side1: double, side2: double, side3: double, color: String, filled: boolean) + getSide1(): double + getSide2(): double + getSide3(): double + setSide1(side1: double): void + setSide2(side2: double): void + setSide3(side3: double): void + getArea(): double + getPerimeter(): double + printTriangle(): void</pre>

13.5

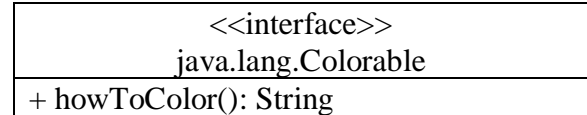
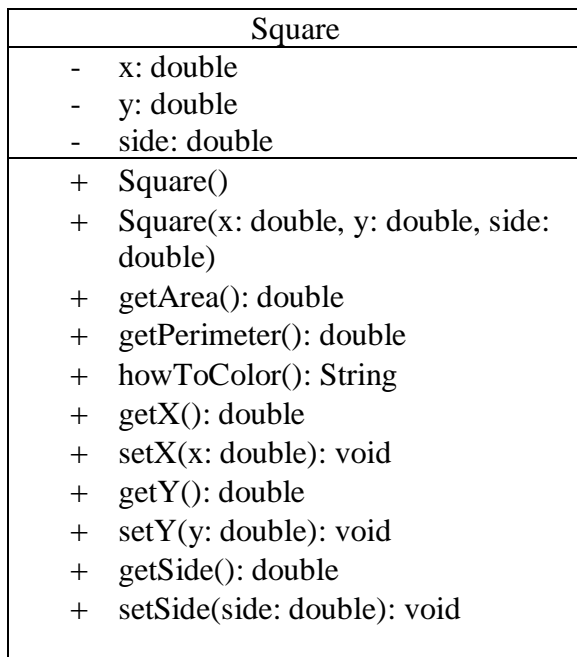
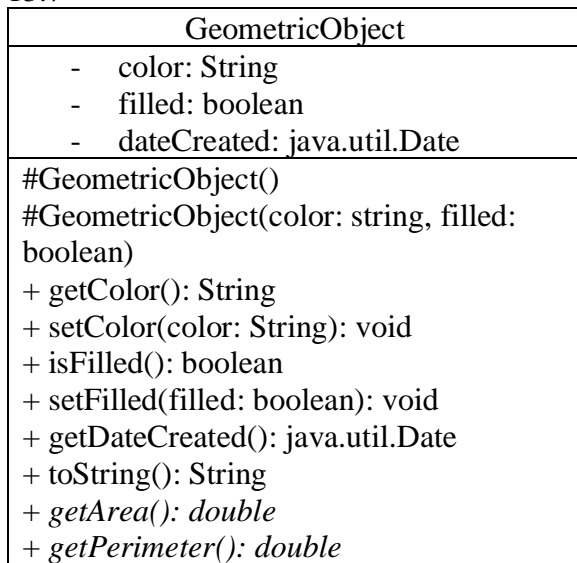
GeometricObject
<ul style="list-style-type: none"> <li>- color: String</li> <li>- filled: boolean</li> <li>- dateCreated: java.util.Date</li> </ul>
#GeometricObject() #GeometricObject(color: string, filled: boolean) + getColor(): String + setColor(color: String): void + isFilled(): boolean + setFilled(filled: boolean): void + getDateCreated(): java.util.Date + toString(): String + <i>getArea(): double</i> + <i>getPerimeter(): double</i>

Circle2D
<ul style="list-style-type: none"> <li>- x: double</li> <li>- y: double</li> <li>- r: double</li> </ul>
+ Circle2D(double x, double y, double r) + getX(): double + getY(): double + getRadius(): double + getArea(): double + getPerimeter(): double + contains(double x, double y): boolean + contains(Circle2D c): boolean + overlaps(Circle2D c): boolean

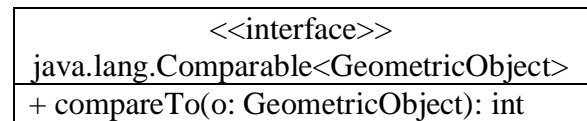
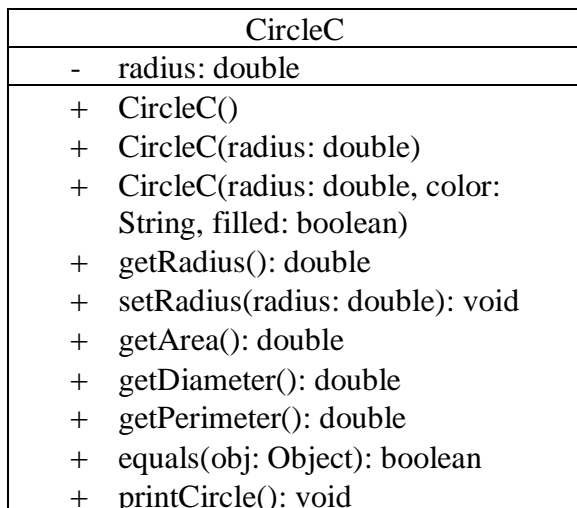
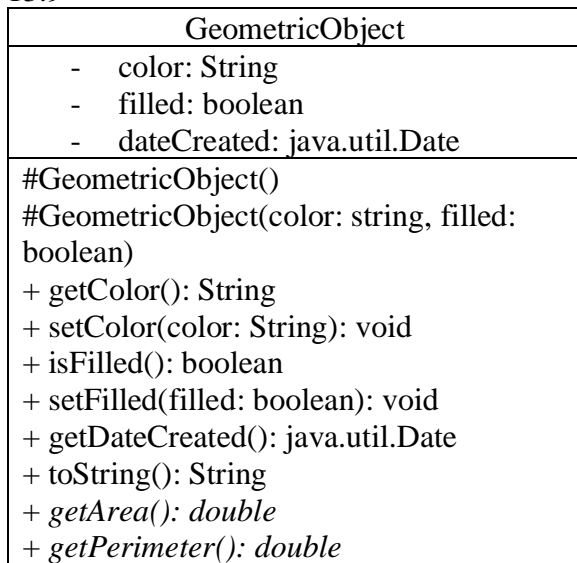
MyRectangle2D
<ul style="list-style-type: none"> <li>- centerX: double</li> <li>- centerY: double</li> <li>- width: double</li> <li>- height: double</li> </ul>
+ MyRectnangle2D(centerX: double, centerY: double, width: double, height: double) + MyRectangle2D(rectangle: Rectangle) + MyRectangle2D() + getCenterX(): double + setCenterX(centerX: double): void + getCenterY(): double + setCenterY(centerY: double): void + getWidth(): double + setWidth(width: double): void + getHeight(): double + setHeight(height: double): void + getPerimeter(): double + getArea(): double + contains(double x, double y): boolean + contains(MyRectangle2D r2): boolean + overalaps(MyRectangle2D r2): boolean



13.7



13.9



13.11

