Shape Interface

Create an interface and concrete classes as described in the inheritance hierarchy below. All interfaces and classes must be in the edu.monmouth.shape package.

Create a class containing a main method that creates an instance of each concrete class and exercises all methods. Only supply those attributes and methods specified in the UML-nothing more, nothing less. There is no need to provide any preconditions in the mutator methods. Simply assign the value passed.

Precede all overridden methods with the @Override annotation.

Using System.out.println() verify each method in the concrete classes.

After verifying all methods work as expected, declare references as:

```
Circle circle;
Rectangle rectangle;
Shape shape1, shape2;
```

Explain why each of these are legal:

```
circle = new Circle(12);
rectangle = new Rectangle(21, 34);
shape1 = new Circle(90);
shape2 = new Rectangle(2, 4);
```

