



```
Circle.java U X
Circle.java > Circle
1 public class Circle implements Shape {
2     @Override
3     public void draw() {
4         System.out.println("Inside Circle::draw() method.");
5     }
6 }
```

```
FactoryPatternDemo.java U X
FactoryPatternDemo.java > FactoryPatternDemo
1 public class FactoryPatternDemo {
2     Run | Debug
3     public static void main(String[] args) {
4         ShapeFactory shapeFactory = new ShapeFactory();
5         Shape shape1 = shapeFactory.getShape(shapeType: "CIRCLE");
6         shape1.draw();
7         Shape shape2 = shapeFactory.getShape(shapeType: "RECTANGLE");
8         shape2.draw();
9         Shape shape3 = shapeFactory.getShape(shapeType: "SQUARE");
10        shape3.draw();
11    }
```

Rectangle.java U X

Rectangle.java > Rectangle

```
1 public class Rectangle implements Shape {  
2     @Override  
3     public void draw() {  
4         System.out.println(x: "Inside Rectangle::draw() method.");  
5     }  
6 }
```

Shape.java U X

Shape.java > Shape

```
1 public interface Shape {  
2     void draw();  
3 }
```

```
ShapeFactory.java U X
ShapeFactory.java > ShapeFactory
1 public class ShapeFactory {
2     public Shape getShape(String shapeType) {
3         if (shapeType == null) {
4             return null;
5         }
6         if (shapeType.equalsIgnoreCase("CIRCLE")) {
7             return new Circle();
8         } else if (shapeType.equalsIgnoreCase("RECTANGLE")) {
9             return new Rectangle();
10        } else if (shapeType.equalsIgnoreCase("SQUARE")) {
11            return new Square();
12        }
13        return null;
14    }
15 }
```

```
Square.java U X
Square.java > ...
1 public class Square implements Shape {
2     @Override
3     public void draw() {
4         System.out.println(x: "Inside Square::draw() method.");
5     }
6 }
7
```

```
cd ~/Documents/GitHub/comsci-path/css222/uml/umlcode/ && java FactoryPatternDemo.java && java FactoryPatternDemo
emo
> cd "/Users/tententgc/Documents/GitHub/comsci-path/css222/uml/umlcode/" && javac FactoryPatternDemo.java && java FactoryPatternDemo
Inside Circle::draw() method.
Inside Rectangle::draw() method.
Inside Square::draw() method.
~/Doc/Gi/comsci-path/css222/u/umlcode on main !9 ?16 base at 12:52:
```