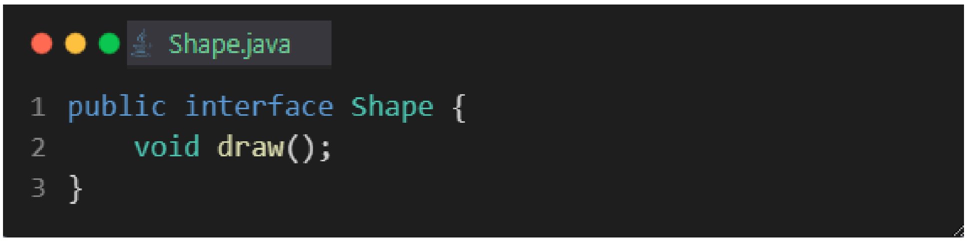
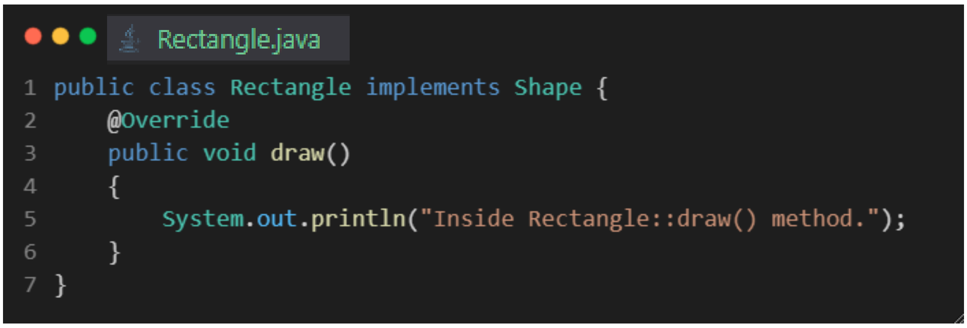
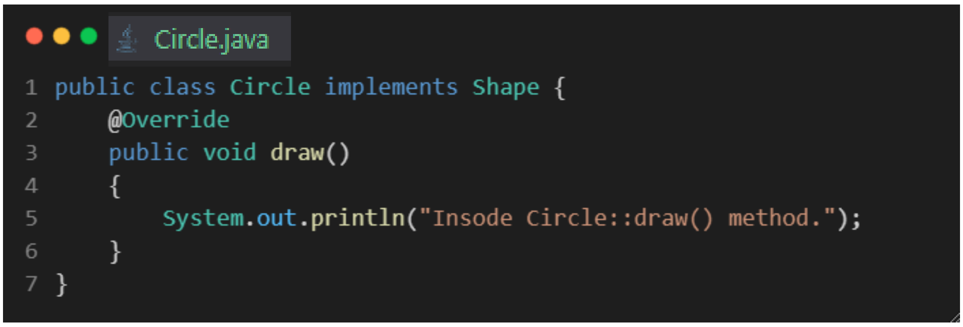
64090500421 นายวัชรพล ตรีสัตยสกุล



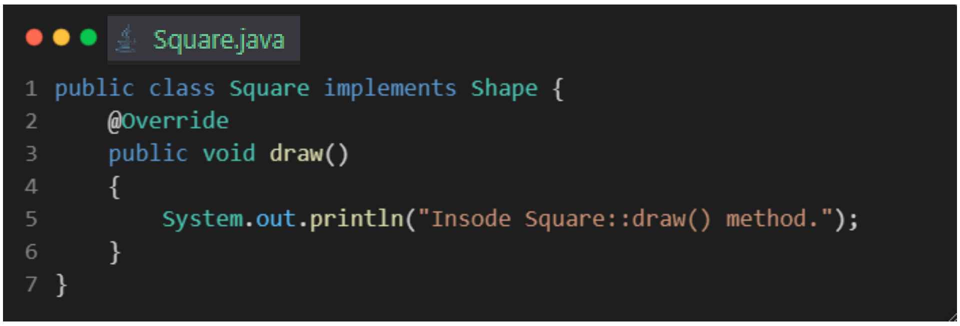
```java
public interface Shape {
    void draw();
}
```



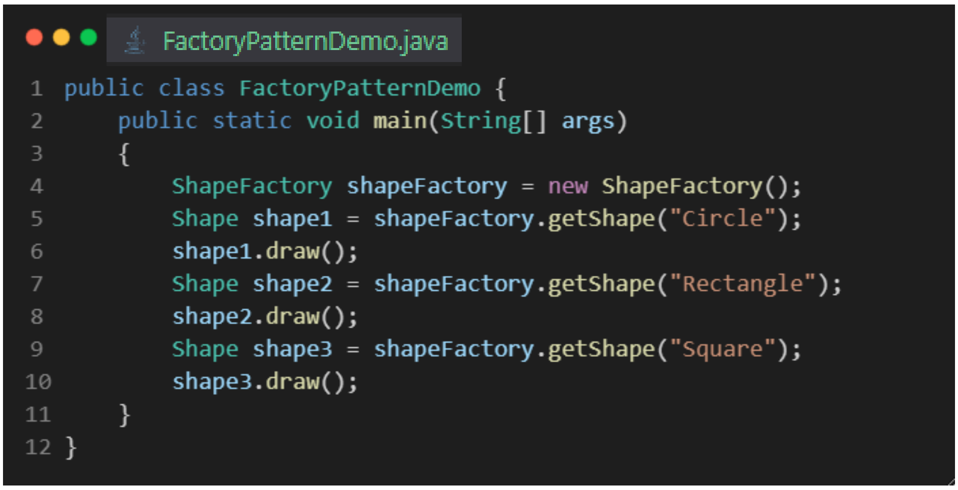
```java
public class Rectangle implements Shape {
    @Override
    public void draw()
    {
        System.out.println("Inside Rectangle::draw() method.");
    }
}
```



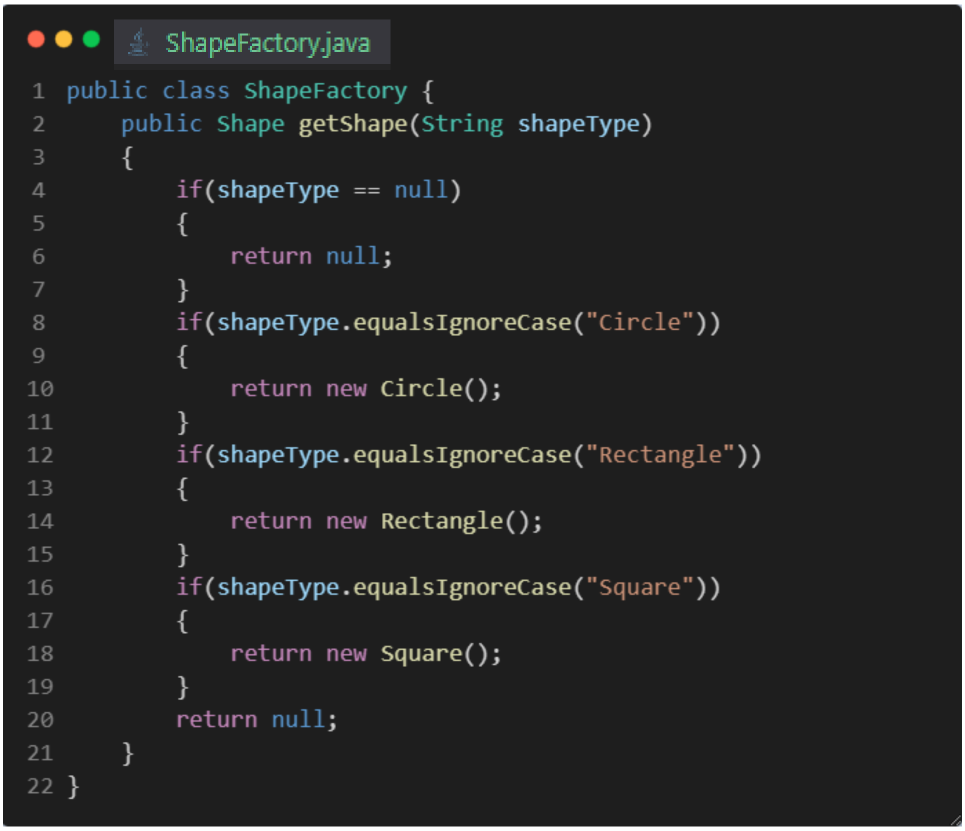
```java
public class Circle implements Shape {
    @Override
    public void draw()
    {
        System.out.println("Insode Circle::draw() method.");
    }
}
```



```java
public class Square implements Shape {
    @Override
    public void draw()
    {
        System.out.println("Insode Square::draw() method.");
    }
}
```



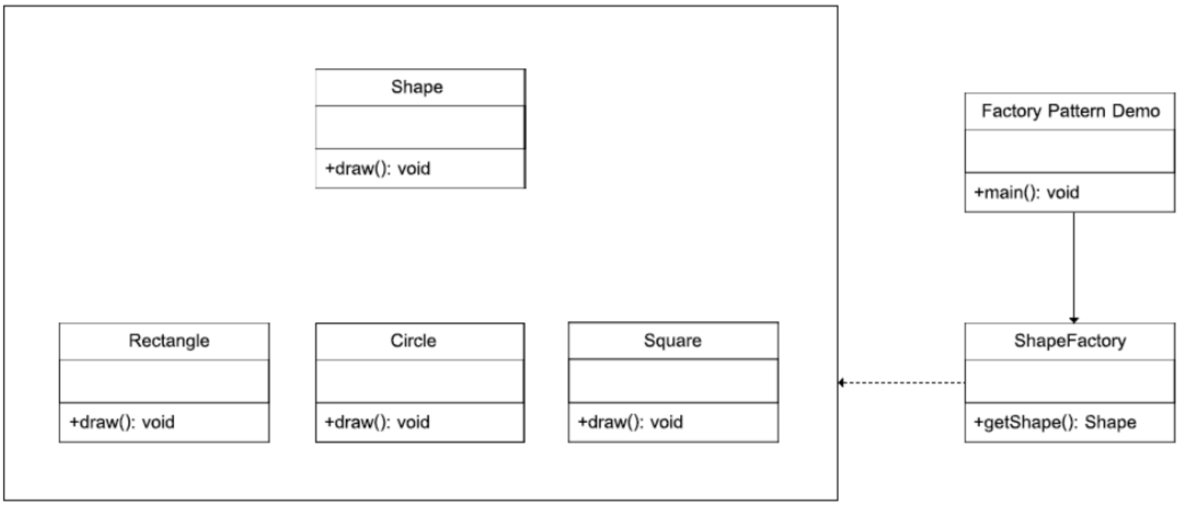
```java
public class FactoryPatternDemo {
    public static void main(String[] args)
    {
        ShapeFactory shapeFactory = new ShapeFactory();
        Shape shape1 = shapeFactory.getShape("Circle");
        shape1.draw();
        Shape shape2 = shapeFactory.getShape("Rectangle");
        shape2.draw();
        Shape shape3 = shapeFactory.getShape("Square");
        shape3.draw();
    }
}
```



ShapeFactory.java

```java
public class ShapeFactory {
    public Shape getShape(String shapeType)
    {
        if(shapeType == null)
        {
            return null;
        }
        if(shapeType.equalsIgnoreCase("Circle"))
        {
            return new Circle();
        }
        if(shapeType.equalsIgnoreCase("Rectangle"))
        {
            return new Rectangle();
        }
        if(shapeType.equalsIgnoreCase("Square"))
        {
            return new Square();
        }
        return null;
    }
}
```

UML


Shape
+draw(): void
Factory Pattern Demo
+main(): void
Rectangle
+draw(): void
Circle
+draw(): void
Square
+draw(): void
ShapeFactory
+getShape(): Shape