**package** designPattern2;

**interface** Shape {

**void** draw();

}

**package** designPattern2;

**public** **class** Rectangle **implements** Shape{

@Override

**public** **void** draw() {

System.***out***.println("Inside Recatngle");

}

}

**package** designPattern2;

**public** **class** Circle **implements** Shape{

@Override

**public** **void** draw() {

System.***out***.println("Inside Circle");

}

}

**package** designPattern2;

**public** **class** Square **implements** Shape{

@Override

**public** **void** draw() {

System.***out***.println("Inside Square");

}

}

**package** designPattern2;

**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**;

}

}

**package** designPattern2;

**public** **class** FactoryPatterndemo {

**public** **static** **void** main(String[] args) {

ShapeFactory shapeFactory=**new** ShapeFactory();

Shape shape1=shapeFactory.getShape("Circle");

shape1.draw();

Shape shape2=shapeFactory.getShape("Square");

shape2.draw();

Shape shape3=shapeFactory.getShape("Rectangle");

shape3.draw();

}

}