**JAVA PROGRAM 1:**

Create a class named 'Shape' with a method to print "This is This is shape". Then create two other classes named 'Rectangle', 'Circle' inheriting the Shape class, both having a method to print "This is rectangular shape" and "This is circular shape" respectively. Create a subclass 'Square' of 'Rectangle' having a method to print "Square is a rectangle". Now call the method of 'Shape' and 'Rectangle' class by the object of 'Square' class.

class Shape{

public void smethod(){

System.out.println("This is This is shape");

}

}

class Rectangle extends Shape{

public void rmethod(){

System.out.println("This is rectangular shape");

}

}

class Circle extends Shape{

public void cmethod(){

System.out.println("This is circular shape");

}

}

class Square extends Rectangle{

public void sqmethod(){

System.out.println("Square is a rectangle");

}

}

public class Ans{

public static void main(String[] args){

Shape m = new Shape();

Rectangle n = new Rectangle();

Square p = new Square();

m.smethod();

n.rmethod();

p.sqmethod();

}

}

**OUTPUT:**

