**Create an interface Shape with methods area () and perimeter (). Implement this interface in a Rectangle class and provide the calculations for area and perimeter**.

java

interface Shape { double area();

double perimeter();

}

class Rectangle implements Shape {

double length;

double width;

Rectangle(double length, double width) {

this.length = length;

this.width = width;

}

public double area() {

return length \* width;

}

public double perimeter() {

return 2 \* (length + width);

}

}

public class ShapeInterfaceTest {

public static void main(String[] args) {

Rectangle rectangle = new Rectangle(4, 5);

System.out.println("Area of the rectangle: " + rectangle.area());

System.out.println("Perimeter of the rectangle: " + rectangle.perimeter());

}

}