abstract class Shape {

    protected int dimension1; // could represent length, base, or radius

    protected int dimension2; // could represent width or height, or could be unused for Circle

    // Abstract method to print area

    public abstract void printArea();

}

class Rectangle extends Shape {

    public Rectangle(int length, int width) {

        this.dimension1 = length;

        this.dimension2 = width;

    }

    @Override

    public void printArea() {

        int area = dimension1 \* dimension2;

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

    }

}

class Triangle extends Shape {

    public Triangle(int base, int height) {

        this.dimension1 = base;

        this.dimension2 = height;

    }

    @Override

    public void printArea() {

        double area = 0.5 \* dimension1 \* dimension2;

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

    }

}

class Circle extends Shape {

    public Circle(int radius) {

        this.dimension1 = radius; // Only one dimension is needed for Circle

    }

    @Override

    public void printArea() {

        double area = Math.PI \* dimension1 \* dimension1;

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

    }

}

public class ShapeTest {

    public static void main(String[] args) {

        Shape rectangle = new Rectangle(5, 3);

        rectangle.printArea();

        Shape triangle = new Triangle(4, 6);

        triangle.printArea();

        Shape circle = new Circle(7);

        circle.printArea();

    }

}

