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import java.util.Scanner;
abstract class Shape{
    double height, width;
    public void getShapeData() {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter information of given Shape ");
        System.out.println("Enter Shape height & width ");
        height=s.nextDouble();
        width=s.nextDouble();
    }
    abstract void compute_area();
}
class Rectangle extends Shape{
    public void compute_area() {
        System.out.println("Area of rectangle "+ (width*height));
    }
}
class Triangle extends Shape{
    public void compute_area() {
        System.out.println("Area of triangle "+ (0.5*width*height));
    }
}
public class AreaDemo {
    public static void main(String[] args) {
        Shape r=new Rectangle();
        System.out.println("Area calculation of rectangle shape ");
        r.getShapeData();
        r.compute_area();
        Shape t=new Triangle();
        System.out.println("Area calculation of triangle shape ");
        t.getShapeData();
        t.compute_area();
    }
}

```