

**Name: Khushi Satyaprakash Singh**

**Branch: Information Technology**

**Div: B**

**Roll number: 45**

**Batch: [B-2]**

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### **Assignment Number :04**

```
abstract class Shape {
    abstract public void computeArea(int x, int y);
    abstract public void calculateArea(); // Declaring the method to be overridden
}
class Triangle extends Shape {
    public int sideA;
    public int sideB;
    public void computeArea(int sideA, int sideB) {
        this.sideA = sideA;
        this.sideB = sideB;
    }
    public void calculateArea() {
        System.out.println("Area of triangle: " + (0.5 * (sideA * sideB)));
    }
}
class Rectangle extends Shape {
    public int width;
    public int height;
    public void computeArea(int width, int height) {
        this.width = width;
        this.height = height;
    }
    public void calculateArea() {
        System.out.println("Area of rectangle: " + (width * height));
    }
}
class AbstractExample {
    public static void main(String[] args) {
        Shape shape1 = new Triangle();
        shape1.computeArea(6, 8);
        shape1.calculateArea();

        Shape shape2 = new Rectangle();
        shape2.computeArea(7, 4);
```

```
shape2.calculateArea();  
}  
}
```

**Output:**

**Area of triangle: 24.0**

**Area of rectangle: 28**