Abstract in java.

```java
abstract class Shape {
    protected int dimensions 1;
    protected int dimensions 2;

    public shape (int dimensions 1, int dimensions 2) {
        this. dimension 1 = dimension 1;
        this. dimension 2 = dimension 2;
    }
    public abstract void print area();
}

class rectangle extends shape {
    public rectangle (int length, int width) {
        super (length, width);
    }
@ override
public void print Area () {
    int area = dimension 1 * dimension 2;
    System.out.println ("Area of rectangle " + area);
    }
}

class triangle extends shape {
    public triangle (int base, int height) {
        super (base, height);
    }
@ override
public void print Area () {
    double area = 0.5 * dimension 1 * dimension 2;
    System.out.println ("Area of triangle : " + area);
    }
}
```

```java
class Circle extends Shape {
    public Circle (int radius) {
        super (radius, 0);
    }

    @override
    public void printArea() {
        double area = Math.PI * dimension1 * dimension1;
        System.out.println("Area of circle: " + area);
    }
}

public class Main {
    public static void main (String [] args) {
        Shape rectangle = new Rectangle (5, 10);
        rectangle.printArea();

        Shape triangle = new Triangle (5, 10);
        triangle.printArea();

        Shape circle = new Circle (7);
        circle.printArea();
    }
}
```

Output:
Enter length of rectangle : 10
Enter width of rectangle : 20
Area of Rectangle : 200
Enter base of triangle : 5
Enter height of triangle : 10
Area of triangle : 25.0
Enter radius of circle : 5
Area of circle : 78.5391

Executed
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