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IBM19CS168  
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## Lab program-4

```
import java.util.*;
abstract class shape {
    int i, j;
    abstract void printArea(double i, double j);
}

class Rectangle extends shape {
    void printArea(double i, double j)
    {
        System.out.println("Area of rectangle = " + (i*j));
    }
}

class Triangle extends shape {
    void printArea(double i, double j)
    {
        System.out.println("Area of triangle = " + (1.0/2.0*i*j));
    }
}

class Circle extends shape {
    void printArea(double i, double j)
    {
        System.out.println("Area of circle = " + (3.142*i*j));
    }
}

class Labprogram4 {
    public static void main(String[] args) {
        double l, b, base, h, r;
        Scanner sc = new Scanner(System.in);
        Rectangle re = new Rectangle();
        Triangle t = new Triangle();
        Circle c = new Circle();
        l = sc.nextDouble(); b = sc.nextDouble(); re.printArea(l, b);
        base = sc.nextDouble(); h = sc.nextDouble(); t.printArea(base, h);
        r = sc.nextDouble(); c.printArea(r, r);
    }
}
```