

Lab-Program-4 :-

```
* import java.util.Scanner;
abstract class shape
{
    int a1;
    int a2;
    shape(int a, int b)
    {
        a1 = a;
        a2 = b;
    }
    abstract double Printarea();
}

class Rectangle extends shape
{
    double area;
    Rectangle(int a, int b)
    {
        super(a, b);
    }
    double Printarea()
    {
        area = a1 * a2;
        return (area);
    }
}
```


class Triangle extends shape

{

double area;

Triangle (inta, int b)

{

super(a, b);

}

double Printarea()

{

area = (double) (a1 * a2) / 2;

return (area);

}

}

class circle extends shape

{

double area;

Circle (inta, int b)

{

super(a, b);

}

double Printarea()

{

area = (double) 3.14 * a1 * a1;

return (area);

}

}

class areas

```
{  
    public static void main (String args[])  
    {  
        Rectangle r = new Rectangle (11, 18);  
        Triangle t = new Triangle (9, 7);  
        Circle c = new Circle (9, 9);  
        System.out.println ("Area of the rectangle : " + r.printArea());  
        System.out.println ("Area of the triangle : " + t.printArea());  
        System.out.println ("Area of the circle : " + c.printArea());  
    }  
}
```