

LAB PROGRAM 4

```
import java.util.Scanner;
abstract class shape {
    int length, breadth;
    void printArea()
    {}
}
class rectangle extends shape
{
    double areaR;
    void printArea() {
        areaR = (length * breadth);
        System.out.println("The area of rectangle is  
+ areaR + " cm^2");
    }
}
class Triangle extends shape
{
    double areaT;
    void printArea() {
        areaT = (0.5) * (length * breadth);
        System.out.println("The area of Triangle is  
+ areaT + " cm^2");
    }
}
class circle extends shape
```

{

double areaC;

void printArea(){

areaC = (3.14) * (length * length);

System.out.println("The area of circle is
" + areaC + "cm²");

}

}

class Main1

{

public static void main (String args[])

{

Scanner A = new Scanner (System.in);

Rectangle R1 = new Rectangle ();

Triangle T1 = new Triangle ();

Circle C1 = new Circle ();

System.out.println("Enter the length and
breadth of which you
have to find the area
of rectangle in cm\n");

R1.length = A.nextInt();

R1.breadth = A.nextInt();

System.out.println("Enter the length and breadth
of which you have to find
the area of triangle in cm\n");

T1.length = A.nextInt();

T1.breadth = A.nextInt();

System.out.println ("Enter the length of
which you have to find
the area of circle in cm\n");

C1. length = A. next Int ();

R1. printArea ();

T1. printArea ();

C1. printArea ();

{

}