

LAB 4

```
import java.util.Scanner;  
abstract class Shape {  
    int length, breadth;  
    void printArea ()  
} }  
class Rectangle extends Shape {  
    double area R;  
    void printArea () {  
        area R = (length * breadth);  
        System.out.println ("The area of rectangle is " + area R + " cm2");  
    } }  
class Triangle extends Shape  
{  
    double area T;  
    void printArea () {  
        area T = (0.5) * (length * breadth);  
        System.out.println ("The area of Triangle is " + area T + " cm2");  
    } }  
class Circle extends Shape {  
    double area C;  
    void printArea () {  
        area C = (3.14) * (length * length);  
        System.out.println ("The area of circle is " + area C + " cm2");  
    } }  
class Main {
```

```

public static void main (String args[]) {
    Scanner A = new Scanner (System.in);
    Rectangle R1 = new Rectangle ();
    Circle C1 = new Circle ();
    System.out.println ("Enter the length and breadth of which
    u 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 u 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 u have to
    find the area of circle in cm\n");
    C1.length = A.nextInt ();
    R1.print Area ();
    T1.print Area ();
    C1.print Area ();
}
}

```


Command Prompt

Microsoft Windows [Version 6.1.7601]

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C:\Users\Lenovo>cd desktop

C:\Users\Lenovo\Desktop>javac Main.java

C:\Users\Lenovo\Desktop>java Main

Enter the length and breadth of which u have to find the area of rectangle

4 7

Enter the length and breadth of which u have to find the area of triangle

7 6

Enter the length of which u have to find the area of circle in cm

3

The area of rectangle is 28.0 cm²

The area of Triangle is 21.0cm²

The area of circle is 28.26cm²

C:\Users\Lenovo\Desktop>