

LAB-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+"cm^2");
}
}
class Main
{
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 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.printArea();
T1.printArea();
```

```
C1.printArea();  
}  
}
```

```
PS C:\Users\dashr\OneDrive\Desktop\Roshni 00J Lab> javac Prog5.java  
PS C:\Users\dashr\OneDrive\Desktop\Roshni 00J Lab> java Prog5  
Enter length of rectangle:13  
Enter breadth of rectangle:12  
Enter height of triangle:10  
Enter base of triangle:22  
Enter radius of circle:4  
-----  
Area of rectangle:156  
Area of triangle:220  
Area of Circle:50.272  
PS C:\Users\dashr\OneDrive\Desktop\Roshni 00J Lab> _
```