

# LAB TEST 1

## **PROGRAM:**

```
import java.util.*;

abstract class Shape
{
    int a;
    int b;
    abstract void printArea();
}

class Rectangle extends Shape
{
    Rectangle(int x, int y)
    {
        a=x;
        b=y;
    }
    void printArea()
    {
        System.out.println("Area is "+(a*b));
    }
}

class Triangle extends Shape
{
    Triangle(int x, int y)
    {
```

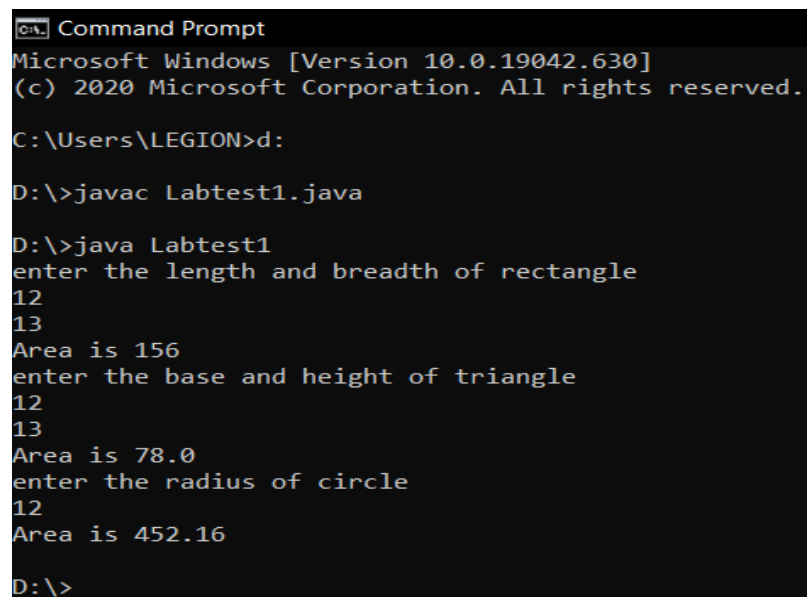
```

    a=x;
    b=y;
}
void printArea()
{
    System.out.println("Area is "+(a*b*0.5));
}
}
class Circle extends Shape
{
    Circle(int x)
    {
        a=x;
    }
    void printArea()
    {
        System.out.println("Area is "+(a*a*3.14));
    }
}
class Labtest1
{
    public static void main(String ss[])
    {
        int l,b,ba,h,ra;
        Scanner sc = new Scanner(System.in);
        System.out.println("enter the length and breadth of rectangle");
    }
}

```

```
l= sc.nextInt();  
b= sc.nextInt();  
Rectangle r= new Rectangle(l,b);  
r.printArea();  
System.out.println("enter the base and height of triangle");  
ba= sc.nextInt();  
h= sc.nextInt();  
Triangle t = new Triangle(ba,h);  
t.printArea();  
System.out.println("enter the radius of circle");  
ra= sc.nextInt();  
Circle c = new Circle(ra);  
c.printArea();  
}  
}
```

## OUTPUT:



```
Command Prompt  
Microsoft Windows [Version 10.0.19042.630]  
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C:\Users\LEGION>d:  
  
D:\>javac Labtest1.java  
  
D:\>java Labtest1  
enter the length and breadth of rectangle  
12  
13  
Area is 156  
enter the base and height of triangle  
12  
13  
Area is 78.0  
enter the radius of circle  
12  
Area is 452.16  
  
D:\>
```