

OBJECT ORIENTED PROGRAMMING LAB**Experiment No: CO4-1****Name: Manya Madhu****Roll No: 17****Batch: S2 RMCA B****Date: 31-05-2022****Aim**

Create a Graphics package that has classes and interfaces for figures Rectangle, Triangle, Square and Circle. Test the package by finding the area of these figures.

Procedure:**Package**

```
package Package_B;

interface interface_graphics{

    public float recArea(int l, int h);

    public float cirArea(int r);

    public float squArea(int a);

    public float triArea(int l, int h);

}

public class package_graphics implements interface_graphics{

    public float recArea(int l, int h){

        return l*h;

    }

    public float cirArea(int r){

        return r*r*(float)3.14;

    }

    public float squArea(int a){
```

```
return a*a;

}

public float triArea(int l, int h){

    return l*h*(float)(.5);

}

}
```

Main Program

```
import Package_B.*;

public class main_graphicss {

    public static void main(String []args){

        package_graphics testObj = new package_graphics();

        System.out.println(testObj.recArea(1,2));

        System.out.println(testObj.cirArea(10));

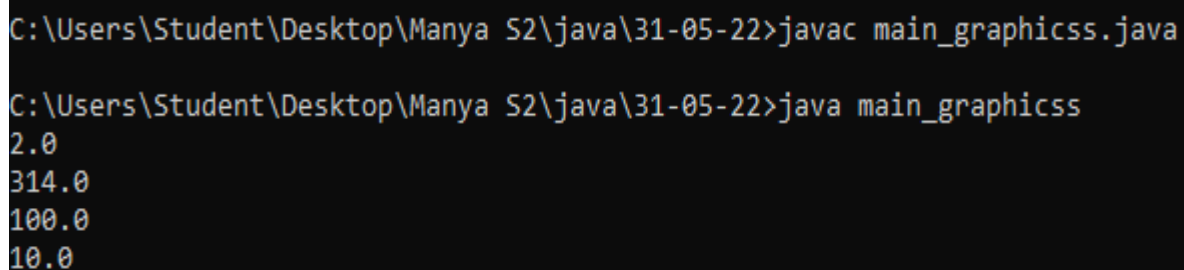
        System.out.println(testObj.squArea(10));

        System.out.println(testObj.triArea(10,2));

    }

}
```

Output:



```
C:\Users\Student\Desktop\Manya S2\java\31-05-22>javac main_graphicss.java

C:\Users\Student\Desktop\Manya S2\java\31-05-22>java main_graphicss
2.0
314.0
100.0
10.0
```