OBJECT ORIENTED PROGRAMMING LAB

Name: Reshma K S

Roll No:27

Batch:mca b

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Experiment No.: 17

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

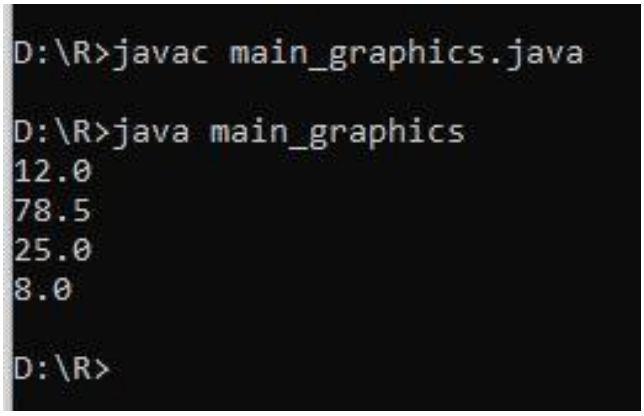
```
package graphics;

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);
    }
}
```

```
import graphics.*;
public class main_graphics {
    public static void main(String []args){
        package_graphics testObj = new package_graphics();
        System.out.println(testObj.recArea(2,6));
        System.out.println(testObj.cirArea(5));
        System.out.println(testObj.squArea(5));
        System.out.println(testObj.triArea(8,2));
    }
}
```

Output Screenshot



```
 Enter the length and breadth of rectangle:
12
12

 Enter the radius of the circle :
5

 Enter the height and breadth of the triangle:
12
5

 INFORMATION OF ALL SHAPES


 DETAILS OF CIRCLE


 RADIUS : 5.0

 AREA   : 30.0

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 DETAILS OF RECTANGLE


 LENGTH : 12.0

 BREADTH  : 12.0

 AREA   : 30.0

----------------------
```

```
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 DETAILS OF TRIANGLE


 BREADTH     : 5.0

 HEIGHT    : 12.0

 AREA    : 30.0
```