

OBJECT ORIENTED PROGRAMMING LAB**Experiment No: (CO4) 21****Name: Mathew Sebastian****Roll No: 18****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;  
    }
```

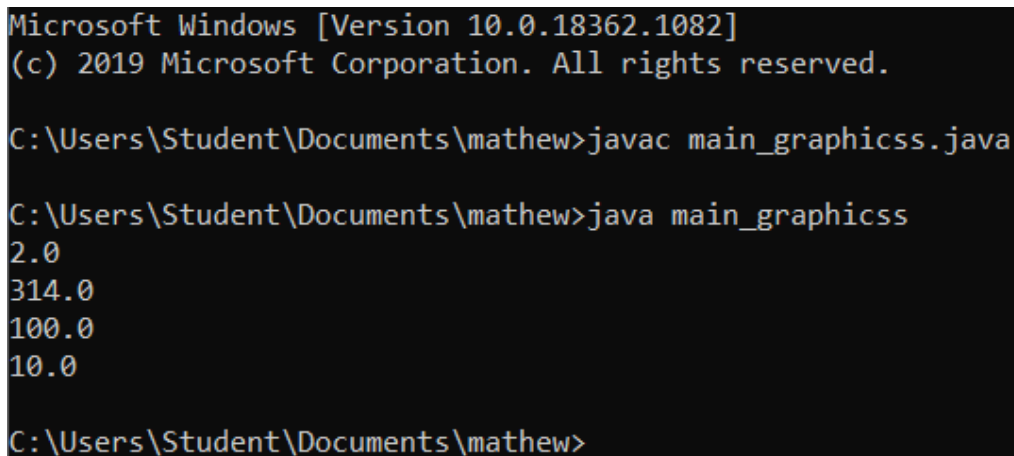
```
    public float triArea(int l, int h){  
        return l*h*(float)(.5);  
    }
```

```
}
```

Main part

```
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 Screenshot

```
Microsoft Windows [Version 10.0.18362.1082]
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C:\Users\Student\Documents\mathew>javac main_graphicss.java

C:\Users\Student\Documents\mathew>java main_graphicss
2.0
314.0
100.0
10.0

C:\Users\Student\Documents\mathew>
```