

**OBJECT ORIENTED PROGRAMMING LAB****Experiment No.: 21****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.

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```
package 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);

}

}
```

**main\_graphics.java**

```
import package_graphics.*;

import java.util.*;

public class main_graphics {

public static void main(String []args){

package_graphics testObj = new package_graphics();

int l,h,r,a,c,d;

Scanner s=new Scanner(System.in);

System.out.println("Enter the length for rectangle");

l=s.nextInt();

System.out.println("Enter the breadth for rectangle");

h=s.nextInt();

System.out.println("Enter the radius of circle");

r=s.nextInt();

System.out.println("Enter the side for Square");

a=s.nextInt();

System.out.println("Enter the breadth for triangle");

c=s.nextInt();
```

```
System.out.println("Enter the height for triangle");

d=s.nextInt();

System.out.println(testObj.recArea(l,h));

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

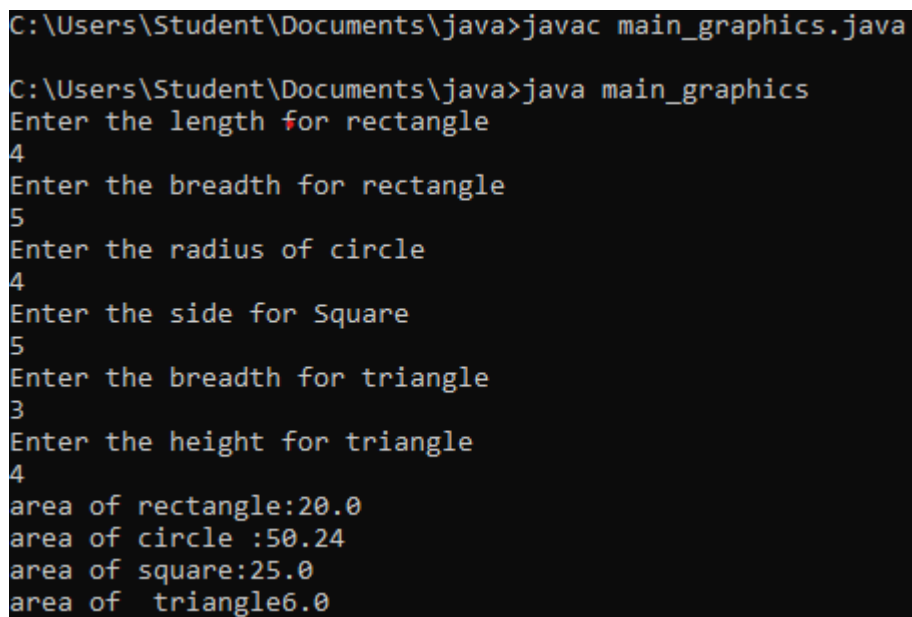
System.out.println(testObj.squArea(a));

System.out.println(testObj.triArea(c,d));

}

}
```

### Output Screenshot



```
C:\Users\Student\Documents\java>javac main_graphics.java
C:\Users\Student\Documents\java>java main_graphics
Enter the length for rectangle
4
Enter the breadth for rectangle
5
Enter the radius of circle
4
Enter the side for Square
5
Enter the breadth for triangle
3
Enter the height for triangle
4
area of rectangle:20.0
area of circle :50.24
area of square:25.0
area of triangle6.0
```