

OBJECT ORIENTED PROGRAMMING LAB

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.

Name: vismaya mohan

Roll No:54

Batch: B

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Procedure

Graphics.java

```
package graphics;
import java.util.Scanner;
interface fig{
    public double recArea();
    public double cirArea();
    public double squArea();
    public double triArea();
}

public class Graphics implements fig {
    Scanner s = new Scanner(System.in);
    int r,l,b,a;
    double pi = 3.14,area;
    public double recArea(){
        System.out.println("Enter length of rectangle:");
```

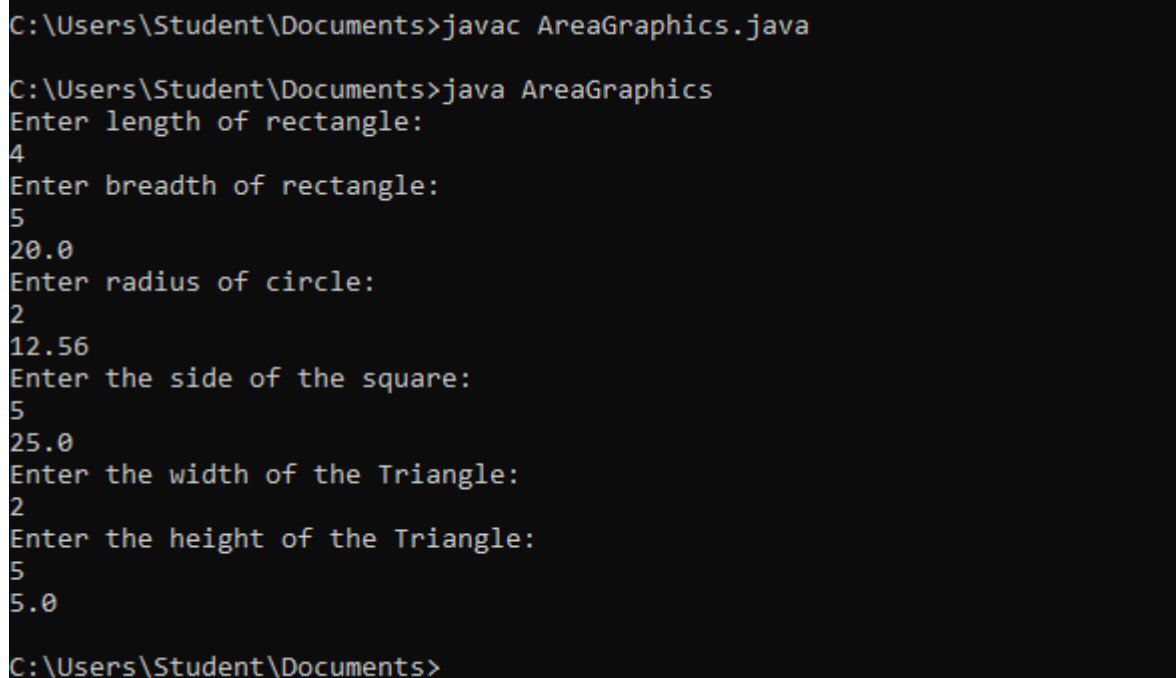
```
l=s.nextInt();
System.out.println("Enter breadth of rectangle:");
b=s.nextInt();
area=l*b;
    return area;
    }
    public double cirArea(){
    System.out.println("Enter radius of circle:");
    r = s.nextInt();
    area = pi * r * r;
    return area;
    }
    public double squArea(){
    System.out.println("Enter the side of the square:");
    a = s.nextInt();
    area = a * a;
    return area;
    }
    public double triArea(){
    System.out.println("Enter the width of the Triangle:");
    double base = s.nextDouble();
    System.out.println("Enter the height of the Triangle:");
    double height = s.nextDouble();
    double area = (base* height)/2;
    return area;
    }
}
```

AreaGraphics.java

```
import graphics.*;
public class AreaGraphics {
public static void main(String []args){
```

```
Graphics Ob = new Graphics();  
System.out.println(Ob.recArea());  
    System.out.println(Ob.cirArea());  
    System.out.println(Ob.squArea());  
    System.out.println(Ob.triArea());  
}
```

Output Screenshot



```
C:\Users\Student\Documents>javac AreaGraphics.java  
  
C:\Users\Student\Documents>java AreaGraphics  
Enter length of rectangle:  
4  
Enter breadth of rectangle:  
5  
20.0  
Enter radius of circle:  
2  
12.56  
Enter the side of the square:  
5  
25.0  
Enter the width of the Triangle:  
2  
Enter the height of the Triangle:  
5  
5.0  
  
C:\Users\Student\Documents>
```