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**Batch: MCA B**

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**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.

**Procedure**

**package\_graphics.java**

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**

