OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 21

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Batch: MCA B

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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 1, 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 1, int h){
     return 1*h;
  public float cirArea(int r){
     return r*r*(float)3.14;
  }
  public float squArea(int a){
     return a*a;
```

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```
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}
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
Enter the breadth for rectangle
Enter the radius of circle
Enter the side for Square
Enter the breadth for triangle
Enter the height for triangle
20.0
50.24
16.0
6.0
C:\Users\Student\Documents\java>javac main_graphics.java
C:\Users\Student\Documents\java>java main_graphics
Enter the length for rectangle
Enter the breadth for rectangle
Enter the radius of circle
Enter the side for Square
Enter the breadth for triangle
Enter the height for triangle
area of rectangle:20.0
area of circle :50.24
area of square:25.0
area of triangle6.0
```