

```

package programmingIILap;
import java.lang.*;
interface Area {
    final static double pt = 3.14;
    double compute(double x, double y);
}

class rectangle implements Area {
    public double compute(double a,
double b) {
        return a * b;
    }
}

class circle implements Area {
    public double compute(double a,
double b) {
        return pt * a * a;
    }
}

class triangle implements Area {
    public double compute(double base,
double height) {
        return 0.5 * base * height;
    }
}

public class interfaceDemo {
    public static void main(String[]
args) {
        rectangle rect = new
rectangle();
        circle cir = new circle();
        triangle tri = new
triangle(); // إنشاء كائن من فئة triangle

        Area A;
        A = rect;
        System.out.println("Area of
rectangle=" + A.compute(10, 20));

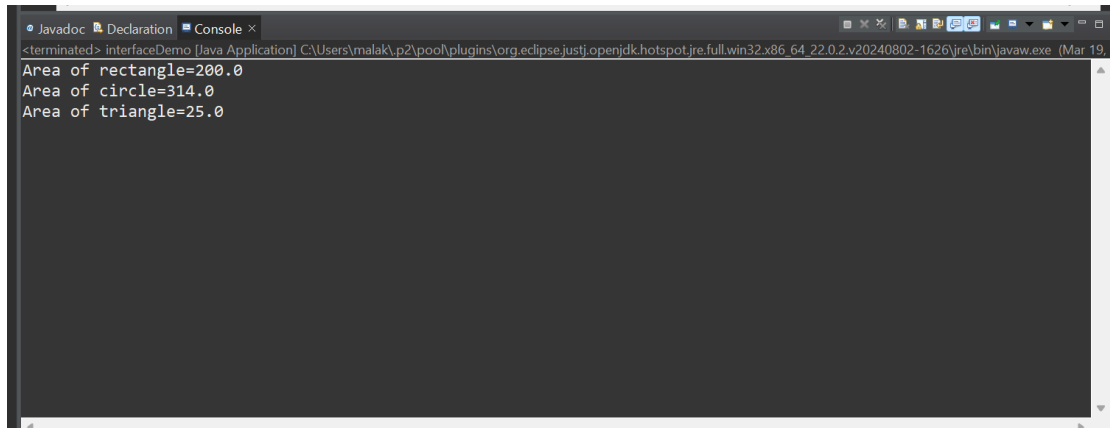
        A = cir;
        System.out.println("Area of
circle=" + A.compute(10, 0));

        A = tri;
        System.out.println("Area of
triangle=" + A.compute(10, 5)); // استدعاء
compute لفئة triangle
    }
}

```

Name: Malak Allah Ali Ali Mohammed AL-sadi.

ID Number: 2240007312



The screenshot shows a Java application window titled "InterfaceDemo [Java Application]". The console output displays the following text:

```
<terminated> InterfaceDemo [Java Application] C:\Users\malak\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.2.v20240802-1626\jre\bin\javaw.exe (Mar 19, 2024 10:10:10 AM)  
Area of rectangle=200.0  
Area of circle=314.0  
Area of triangle=25.0
```