

Program sederhana implementasi class abstract

```
1 package GSLC_OOP_2;
2
3 abstract class Shape {
4     abstract double area();
5 }
6
7 class Rectangle extends Shape{
8     int length;
9     int width;
10
11     public Rectangle(int length, int width) {
12         this.length = length;
13         this.width = width;
14     }
15
16     double area() {
17         return length * width;
18     }
19 }
20
21 class Circle extends Shape{
22     int radius;
23
24     public Circle(int radius) {
25         this.radius = radius;
26     }
27
28     double area() {
29         return 3.14 * radius;
30     }
31 }
32
33 public class AbstractExample {
34
35     public static void main(String[] args) {
36         Rectangle rectangle1 = new Rectangle(5, 2);
37         Circle circle1 = new Circle(10);
38
39         System.out.println("Area of rectangle: " + rectangle1.area());
40         System.out.println("Area of circle: " + circle1.area());
41     }
42 }
```

Eksekusi program:

```
Area of rectangle: 10.0
Area of circle: 31.400000000000002
Volume of rectangle: 0.0
Volume of circle: 0.0
```

Program sederhana implementasi class interface

```
1 package GSLC_OOP_2_interface;
2
3 interface Shape {
4     double area();
5     double volume();
6 }
7
8 class Rectangle implements Shape{
9     int length;
10    int width;
11
12    public Rectangle(int length, int width) {
13        this.length = length;
14        this.width = width;
15    }
16
17    public double area() {
18        return length * width;
19    }
20
21    public double volume() {
22        return 0;
23    }
24 }
25
26 class Circle implements Shape{
27     int radius;
28
29    public Circle(int radius) {
30        this.radius = radius;
31    }
32
33    public double area() {
34        return 3.14 * radius;
35    }
36
37    public double volume() {
38        return 0;
39    }
40 }
41
42 public class InterfaceExample {
43
44    public static void main(String[] args) {
45        Rectangle rectangle1 = new Rectangle(5, 2);
46        Circle circle1 = new Circle(10);
47
48        System.out.println("Area of rectangle: " + rectangle1.area());
49        System.out.println("Area of circle: " + circle1.area());
50
51        System.out.println("Volume of rectangle: " + rectangle1.volume());
52        System.out.println("Volume of circle: " + circle1.volume());
53    }
54 }
```

Eksekusi program:

```
Area of rectangle: 10.0  
Area of circle: 31.400000000000002  
Volume of rectangle: 0.0  
Volume of circle: 0.0
```