

Extra Practical No : 5

Problem Statement : Write a simple java application that creates a Rectangle class with two double data members namely length and breadth. Create 3 different definitions of constructor to create 3 objects by using the 3 constructors. Display their area using an area method.

Program :

```
class Rectangle {  
    double length;  
    double breadth;  
  
    Rectangle()  
    {  
        length = 10.0;  
        breadth = 20.0;  
    }  
  
    Rectangle(double l, double b)  
    {  
        length = l;  
        breadth = b;  
    }  
  
    Rectangle(double side)  
    {  
        length = side;  
        breadth = side;  
    }  
  
    double area()  
    {  
        return length * breadth;  
    }  
}  
public class CalculateArea  
{
```

```
public static void main(String[] args)
{
    Rectangle rect1 = new Rectangle();
    Rectangle rect2 = new Rectangle(5.0, 7.0);
    Rectangle rect3 = new Rectangle(6.0);

    System.out.println("Area of rect1: " + rect1.area());
    System.out.println("Area of rect2: " + rect2.area());
    System.out.println("Area of rect3: " + rect3.area());
}
}
```

Output :

```
Area of rect1: 200.0
Area of rect2: 35.0
Area of rect3: 36.0
```

```
c:\Users\ventura\OneDrive\Documents\Desktop\ROYAL\ (JAVA-C) ET24BTCO156>
```