Experiment No:-03

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**Program Code:-**

class Rectangle {

double length;

double width;

double area;

String colour;

Rectangle(double length, double width, String colour) {

this.length = length;

this.width = width;

this.colour = colour;

this.area = calculateArea();

}

double calculateArea() {

return length \* width;

}

static void compareRectangles(Rectangle rect1, Rectangle rect2) {

if (rect1.colour.equals(rect2.colour) && rect1.area == rect2.area) {

System.out.println("Matching Rectangles");

} else {

System.out.println("Non-matching Rectangles");

}

}

public static void main(String[] args) {

Rectangle rectangle1 = new Rectangle(4, 5, "Red");

Rectangle rectangle2 = new Rectangle(10, 2, "Red");

compareRectangles(rectangle1, rectangle2);

}

}

**Output:-**

Matching Rectangles