**Experiment No. 3**

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Subject : FJP

Roll No. : 1

import java.util.Scanner;

class Rectangle {

    private double length, width;

    private String colour;

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

        this.length = length;

        this.width = width;

        this.colour = colour;

    }

    public double getLength() { return length; }

    public double getWidth() { return width; }

    public String getColour() { return colour.toLowerCase(); }

    public double findArea() { return length \* width; }

}

public class Experiment3 {

    public static void compareRectangles(Rectangle r1, Rectangle r2) {

        if (r1.findArea() == r2.findArea() && r1.getColour().equals(r2.getColour())) {

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

        } else {

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

        }

    }

    public static void main(String[] args) {

        System.out.println("write height and length of rectangle 1");

        Scanner sc=new Scanner(System.in);

        System.out.print("length of rectangle 1 is =");

        double a=sc.nextDouble();

        System.out.print("breath of rectangle 1 is =");

        double b =sc.nextDouble();

        System.out.print("color of rectangle 1 is =");

        String c =sc.next().toLowerCase();

        System.out.print("length of rectangle 2 is =");

        double d=sc.nextDouble();

        System.out.print("breath of rectangle 2 is =");

        double e =sc.nextDouble();

        System.out.print("color of rectangle 2 is =");

        String f =sc.next().toLowerCase();

        Rectangle rect1 = new Rectangle(a, b, c);

        Rectangle rect2 = new Rectangle(d, e, f);

        compareRectangles(rect1, rect2);

        sc.close();

    }

}

Output :

write height and length of rectangle 1

length of rectangle 1 is =23

breath of rectangle 1 is =35

color of rectangle 1 is =25

length of rectangle 2 is =65

breath of rectangle 2 is =45

color of rectangle 2 is =25

Non-matching Rectangle