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**Problem Statement:** Design class Rectangle with the data fields width, length, area and colour.

The length, width and area are of double type and colour is of string type.

The methods are get\_length(), get\_width(), get\_colour() and find\_area().

Create two objects of Rectangle and compare their area and colour. If the area and colour both are the same for the objects then display the Matching Rectangles , otherwise display the Non-matching Rectangle.

**Note: Copy code and program output for all cases here**

//Code title : Check rectangle matching or not

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//Date : 09/08/23

**import** java.util.\*;

**class** Rectangle

{

**double** len,wid,area;

String color;

**void** getLength()

{

Scanner sc = **new** Scanner(System.***in***);

System.***out***.print("Enter length of rectngle : ");

len = sc.nextDouble();

}

**void** getWidth()

{

Scanner sc = **new** Scanner(System.***in***);

System.***out***.print("Enter width of rectngle : ");

wid = sc.nextDouble();

}

**void** getColor()

{

Scanner sc = **new** Scanner(System.***in***);

System.***out***.print("Enter Color of rectngle : ");

color = sc.next();

}

**void** findArea()

{

area = len\*wid;

System.***out***.println("Area of rect = "+area);

}

}

**public** **class** Commpare

{

**public** **static** **void** main(String[] args)

{

// **TODO** Auto-generated method stub

Rectangle R1 = **new** Rectangle();

Rectangle R2 = **new** Rectangle();

System.***out***.println("Details of Rectangle 1 : ");

R1.getLength();

R1.getWidth();

R1.getColor();

R1.findArea();

// System.out.println("SUCCESSFUL!");

System.***out***.println("\nDetails of Rectangle 2 : \n");

R2.getLength();

R2.getWidth();

R2.getColor();

R2.findArea();

**if**((R1.area == R2.area) && R1.color.equalsIgnoreCase(R2.color))

{

System.***out***.println("Rectangles are Matching!");

}

**else**

{

System.***out***.println("\n\nRecatangles are not matching");

}

}

}

**OUTPUT :**



