

Package Explorer X Main.java Main1.java ComputeMethods.java ProcessName.java TrafficLightChecker.java X

```
1 package Practice;
2 //Problem 5-3: Determining the next color for a stop light using switch
3 import java.util.Scanner;
4 public class TrafficLightChecker {
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7         System.out.print("Enter a color code (1 for Red, 2 for Green, 3 for Yellow): ");
8         int currentColor = scanner.nextInt();
9         String nextColor;
10        switch (currentColor) {
11            case 1:
12                nextColor = "Green";
13                break;
14            case 2:
15                nextColor = "Yellow";
16                break;
17            case 3:
18                nextColor = "Red";
19                break;
20            default:
21                nextColor = null;
22                break;
23        }
24        if (nextColor != null) {
25            System.out.println("Next Traffic Light is " + nextColor.toLowerCase());
26        } else {
27            System.out.println("Invalid color");
28        }
29    }
30 }
31
```

Task List X Find All Ac

Outline X Practice TrafficLightCheck main(String[])

Problems Javadoc Declaration Console X

<terminated> TrafficLightChecker [Java Application] C:\Users\rjana\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_22.0.1.v20240426-1149\jre\bin\javaw.exe (2 Aug 2024, 6:49:32 pm – 6:49:35 pm) [pid: 1972]

Enter a color code (1 for Red, 2 for Green, 3 for Yellow): 2

Next Traffic Light is yellow

Package Explorer X Main.java Main1.java ComputeMethods.java ColorRange.java TrafficLightCheaker.java X ProcessName.java TrafficLightChecker.java Task List X

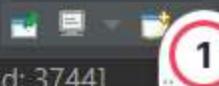
```
1 package Practice;
2 //Problem 5-2: Determining the next color for a stop light
3 import java.util.Scanner;
4
5 public class TrafficLightCheaker {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8         System.out.print("Enter a color code (1 for Red, 2 for Green, 3 for Yellow): ");
9         int currentColor = scanner.nextInt();
10
11         String nextColor;
12         if (currentColor == 1) {
13             nextColor = "Green";
14         } else if (currentColor == 2) {
15             nextColor = "Yellow";
16         } else if (currentColor == 3) {
17             nextColor = "Red";
18         } else {
19             nextColor = null;
20         }
21
22         if (nextColor != null) {
23             System.out.println("Next Traffic Light is " + nextColor.toLowerCase());
24         } else {
25             System.out.println("Invalid color");
26         }
27     }
28 }
```

Problems Javadoc Declaration Console X

<terminated> TrafficLightCheaker [Java Application] C:\Users\rjana\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_22.0.1.v20240426-1149\jre\bin\javaw.exe (2 Aug 2024, 6:47:18 pm – 6:47:24 pm) [pid: 3744]

Enter a color code (1 for Red, 2 for Green, 3 for Yellow): 3

Next Traffic Light is red



Battery status: 74% available (plugged in)

eclipse-workspace - Practice/src/Practice/ColorRange.java - Eclipse IDE

File Edit Source Refactor Source Navigate Project Run Window Help

Package Explorer X Main.java Main1.java ComputeMethods.java ColorRange.java X TrafficLightCheaker.java ProcessName.java TrafficLightChecker.java Task List X

dharshini JRE System Library [JavaSE-15] src dj Practice TEST TrafficSignalOptimization

```
1 package Practice;
2 //Practice 5-1: Determining color in the visible spectrum
3 import java.util.Scanner;
4 public class ColorRange {
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7         System.out.print("Enter a color code: ");
8         double wavelength = scanner.nextDouble();
9         String color;
10        if (wavelength >= 380 && wavelength < 450) {
11            color = "Violet";
12        } else if (wavelength >= 450 && wavelength < 495) {
13            color = "Blue";
14        } else if (wavelength >= 495 && wavelength < 570) {
15            color = "Green";
16        } else if (wavelength >= 570 && wavelength < 590) {
17            color = "Yellow";
18        } else if (wavelength >= 590 && wavelength < 620) {
19            color = "Orange";
20        } else if (wavelength >= 620 && wavelength <= 750) {
21            color = "Red";
22        } else {
23            color = null;
24        }
25
26        if (color != null) {
27            System.out.println("The color is " + color);
28        } else {
29            System.out.println("The entered wavelength is not a part of the visible spectrum");
30        }
31    }
32 }
```

Outline X Practice ColorRange main(String[])

Problems Javadoc Declaration Console X

<terminated> ColorRange [Java Application] C:\Users\rjana\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_22.0.1.v20240426-1149\jre\bin\javaw.exe (2 Aug 2024, 6:46:16 pm – 6:46:20 pm) [pid: 4784]

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