

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

File Edit Source Refactor Source Navigate Search Project Run Window Help

Package Explorer ×

dhharshini

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

Main.java Main1.java ComputeMethods.java ProcessName.java TrafficLightChecker.java ×

```
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 ×

Find > All > Ac

Outline ×

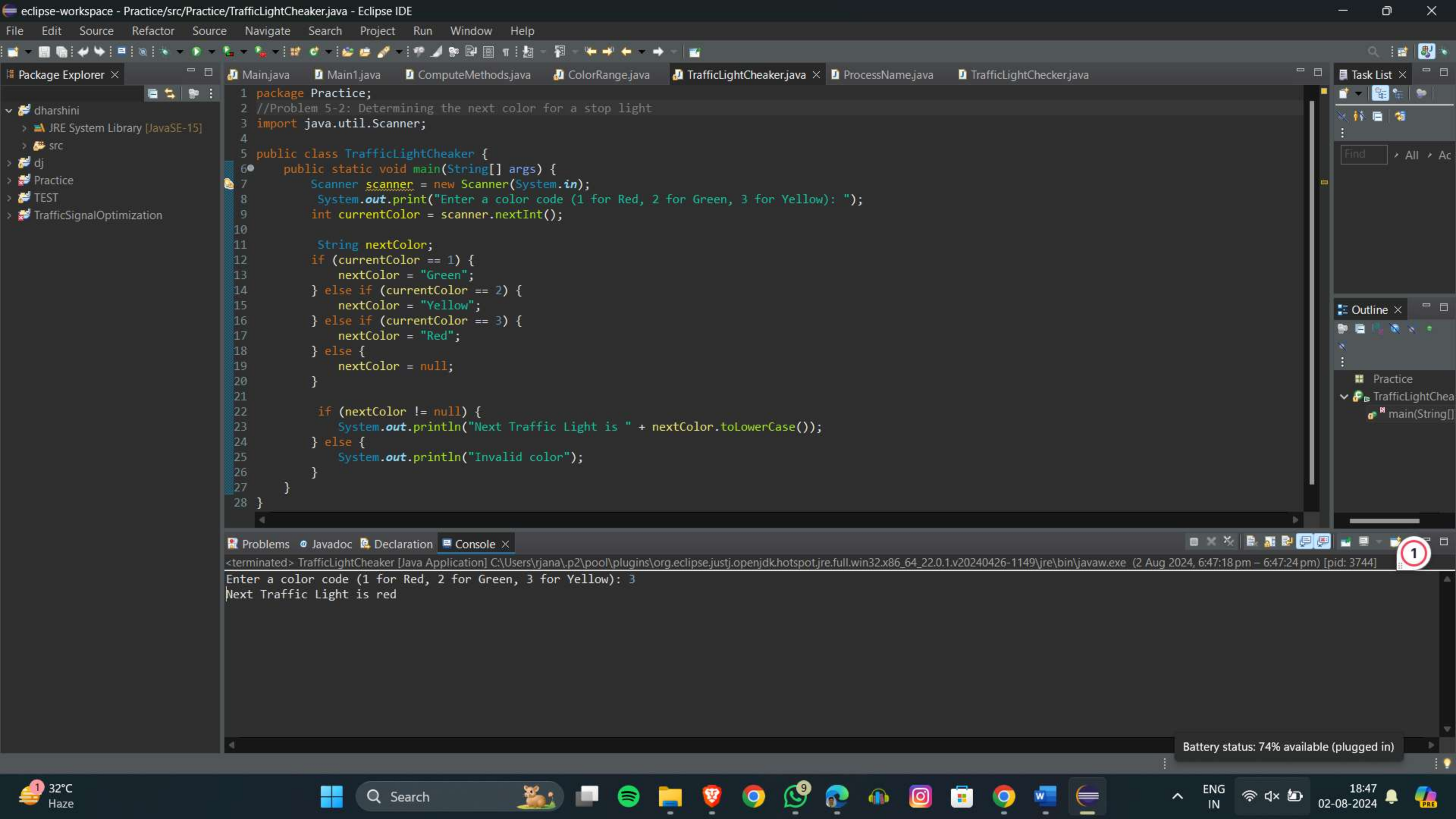
Practice

- TrafficLightCheck
- main(String[]

Problems Javadoc Declaration Console ×

<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



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

File Edit Source Refactor Source Navigate Search Project Run Window Help

Package Explorer ×

dharsini

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

Main.java Main1.java ComputeMethods.java ColorRange.java × TrafficLightCheaker.java ProcessName.java TrafficLightChecker.java

```
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 }
```

Task List ×

Find > All > Ac

Outline ×

Practice

- ColorRange
 - main(String[] args)

Problems Javadoc Declaration Console ×

<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]

Enter a color code: 450
The color is Blue

32°C Haze

Search

18:46 02-08-2024