student.java   Student.java   person.java   ManagingPeop...   randomnumbe...   **ColorRange.java** ✕   »₁₇

```java
13          if (wavelength >= 380 && wavelength < 450) {
14              System.out.println("The color is Violet");
15          }
16          else if (wavelength >= 450 && wavelength < 495) {
17              System.out.println("The color is Blue");
18          }
19          else if (wavelength >= 495 && wavelength < 570) {
20              System.out.println("The color is Green");
21          }
22          else if (wavelength >= 570 && wavelength < 590) {
23              System.out.println("The color is Yellow");
24          }
25          else if (wavelength >= 590 && wavelength < 620) {
26              System.out.println("The color is Orange");
27          }
28          else if (wavelength >= 620 && wavelength <= 750) {
29              System.out.println("The color is Red");
30          }
31          else {
32              System.out.println("The entered wavelength is not a part of the visible spectrum");
33          }
34
35          scanner.close();
36      }
37 }
38
```

■ Console ✕

<terminated> ColorRange [Java Application] C:\Users\MAITHREYEE\Downloads\eclipse-jee-2024-06-R-win32-x86_64\eclipse\plugins\org.eclips

```
Enter a color code: 390
The color is Violet
```

student.java   Student.java   person.java   randomnumbe...   ColorRange.java   TrafficLigh... ×   »₁₈

```java
1 package pri;
2 import java.util.Scanner;
3
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: ");
8         int currentColor = scanner.nextInt();
9
10        String nextColor;
11        switch (currentColor) {
12            case 1:
13                nextColor = "green";
14                break;
15            case 2:
16                nextColor = "yellow";
17                break;
18            case 3:
19                nextColor = "red";
20                break;
21            default:
22                nextColor = "Invalid color";
23                break;
24        }
25
26        if (nextColor.equals("Invalid color")) {
```

Console ×

<terminated> TrafficLightChecker [Java Application] C:\Users\MAITHREYEE\Downloads\eclipse-jee-2024-06-R-win32-x86_64\eclipse\plugins\or

```
Enter a color code: 1
Next Traffic Light is green
```

```
1  package pri;
2  import java.util.Scanner;
3  public class TrafficLightSwitch {
4
5      public static void main(String[] args) {
6
7          Scanner scanner = new Scanner(System.in);
8
9          System.out.print("Enter the current traffic light color (Red, Yellow, Green): ");
10         String currentColor = scanner.nextLine().trim();
11         String nextColor;
12
13         switch (currentColor.toLowerCase()) {
14             case "red":
15                 nextColor = "Green";
16                 break;
17             case "green":
18                 nextColor = "Yellow";
19                 break;
20             case "yellow":
21                 nextColor = "Red";
22                 break;
23             default:
24                 System.out.println("Invalid input! Please enter Red, Yellow, or Green.");
25                 scanner.close();
26                 return;
```

Console ×

<terminated> TrafficLightSwitch [Java Application] C:\Users\MAITHREYEE\Downloads\eclipse-jee-2024-06-R-win32-x86_64\eclipse\plugins\org

```
Enter the current traffic light color (Red, Yellow, Green): red
The next traffic light color is: Green
```