TEJA NAIDU
192311167

```java
import java.util.Scanner;
public class COLOUR {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a color code: ");
        double wavelength = scanner.nextDouble();
        if (wavelength >= 380 && wavelength < 450) {
            System.out.println("The color is Violet");
        } else if (wavelength >= 450 && wavelength < 495) {
            System.out.println("The color is Blue");
        } else if (wavelength >= 495 && wavelength < 570) {
            System.out.println("The color is Green");
        } else if (wavelength >= 570 && wavelength < 590) {
            System.out.println("The color is Yellow");
        } else if (wavelength >= 590 && wavelength < 620) {
            System.out.println("The color is Orange");
        } else if (wavelength >= 620 && wavelength < 750) {
            System.out.println("The color is Red");
        } else {
            System.out.println("The entered wavelength is not a part of the visible spectrum");
        }
        scanner.close();
    }
}
```

Problems @ Javadoc Declaration Search Console ×

<terminated> COLOUR [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (2 Aug 2024, 1:40:15 pm – 1:40:36 pm) [pid: 10004]

Enter a color code: 590
The color is Orange

```java
import java.util.Scanner;
public class COLOUR {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a color code (1 for Red, 2 for Green, 3 for Yellow): ");
        int colorCode = scanner.nextInt();
        String nextColor;
        switch (colorCode) {
            case 1:
                nextColor = "Green";
                break;
            case 2:
                nextColor = "Yellow";
                break;
            case 3:
                nextColor = "Red";
                break;
            default:
                System.out.println("Invalid color");
                scanner.close();
                return;
        }
        System.out.println("Next Traffic Light is " + nextColor);
        scanner.close();
    }
}
```

Problems @ Javadoc Declaration Search Console ×

<terminated> COLOUR [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (2 Aug 2024, 1:52:31 pm – 1:52:36 pm) [pid: 5580]

Enter a color code (1 for Red, 2 for Green, 3 for Yellow): 2
Next Traffic Light is Yellow

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```java
 2 import java.util.Scanner;
 3 public class COLOUR {
 4     public static void main(String[] args) {
 5         Scanner scanner = new Scanner(System.in);
 6         System.out.print("Enter a color code (1 for Red, 2 for Green, 3 for Yellow): ");
 7         int colorCode = scanner.nextInt();
 8         String nextColor;
 9         if (colorCode == 1) {
10             nextColor = "Green";
11         } else if (colorCode == 2) {
12             nextColor = "Yellow";
13         } else if (colorCode == 3) {
14             nextColor = "Red";
15         } else {
16             System.out.println("Invalid color");
17             scanner.close();
18             return;
19         }
20         System.out.println("Next Traffic Light is " + nextColor);
21         scanner.close();
22     }
23 }
24
25
26
27
```

Problems @ Javadoc Declaration Search Console ×

<terminated> COLOUR [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (2 Aug 2024, 1:48:33 pm – 1:49:17 pm) [pid: 15596]
Enter a color code (1 for Red, 2 for Green, 3 for Yellow): 3
Next Traffic Light is Red

TEJA NAIDU
192311167

```java
2  import java.util.Scanner;
3  public class COLOUR {
4      public static void main(String[] args) {
5          Scanner scanner = new Scanner(System.in);
6          System.out.print("Enter a color code (1 for Red, 2 for Green, 3 for Yellow): ");
7          int colorCode = scanner.nextInt();
8          String nextColor;
9          if (colorCode == 1) {
10             nextColor = "Green";
11         } else if (colorCode == 2) {
12             nextColor = "Yellow";
13         } else if (colorCode == 3) {
14             nextColor = "Red";
15         } else {
16             System.out.println("Invalid color");
17             scanner.close();
18             return;
19         }
20         System.out.println("Next Traffic Light is " + nextColor);
21         scanner.close();
22     }
23 }
24
25
26
27
```

Problems @ Javadoc Declaration Search Console ×

<terminated> COLOUR [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (2 Aug 2024, 1:48:33 pm – 1:49:17 pm) [pid: 15596]
Enter a color code (1 for Red, 2 for Green, 3 for Yellow): 3
Next Traffic Light is Red