

ColorRange.java ⋮

```

1 //Harini.R 192324108
2 //JFo 5 question 1
3 import java.util.Scanner;
4
5 public class ColorRange {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8
9         System.out.print("Enter a color code: ");
10        double wavelength = scanner.nextDouble();
11
12        if (wavelength >= 380 && wavelength < 450) {
13            System.out.println("The color is Violet");
14        }
15        else if (wavelength >= 450 && wavelength < 495) {
16            System.out.println("The color is Blue");
17        }
18        else if (wavelength >= 495 && wavelength < 570) {
19            System.out.println("The color is Green");
20        }
21        else if (wavelength >= 570 && wavelength < 590) {
22            System.out.println("The color is Yellow");
23        }
24        else if (wavelength >= 590 && wavelength < 620) {
25            System.out.println("The color is Orange");
26        }
27        else if (wavelength >= 620 && wavelength <= 750) {
28            System.out.println("The color is Red");
29        }
30        else {
31            System.out.println("The entered wavelength is not a part of the visible spectrum");
32        }
33
34        scanner.close();
35    }
36 }
37

```

```

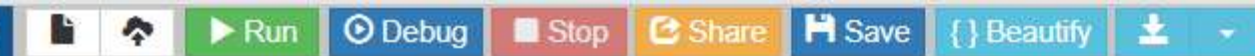
Enter a color code: 650
The color is Red

```

```

...Program finished with exit code 0
Press ENTER to exit console.

```



Language Java



input

TrafficLightChecke... ⋮

```
1 //Harini.R 192324108
2 //JFo 5 question-2
3 import java.util.Scanner;
4
5 public class TrafficLightChecker {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8         System.out.print("Enter a color code: ");
9         int currentColor = scanner.nextInt();
10
11         String nextColor;
12         switch (currentColor) {
13             case 1:
14                 nextColor = "green";
15                 break;
16             case 2:
17                 nextColor = "yellow";
18                 break;
19             case 3:
20                 nextColor = "red";
21                 break;
22             default:
23                 nextColor = "Invalid color";
24                 break;
25         }
26
27         if (nextColor.equals("Invalid color")) {
28             System.out.println(nextColor);
29         } else {
30             System.out.printf("Next Traffic Light is %s%n", nextColor);
31         }
32
33         scanner.close();
34     }
35 }
36
```

```
Enter a color code: 2
Next Traffic Light is yellow
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```

Language Java

input

TrafficLightSwitch.j...
TrafficLightSwitch.j...

```
1 //Harini.R 192324108
2 //JFo 5 question-3
3 import java.util.Scanner;
4 public class TrafficLightSwitch {
5
6     public static void main(String[] args) {
7
8         Scanner scanner = new Scanner(System.in);
9
10        System.out.print("Enter the current traffic light color (Red, Yellow, Green): ");
11        String currentColor = scanner.nextLine().trim();
12        String nextColor;
13
14        switch (currentColor.toLowerCase()) {
15            case "red":
16                nextColor = "Green";
17                break;
18            case "green":
19                nextColor = "Yellow";
20                break;
21            case "yellow":
22                nextColor = "Red";
23                break;
24            default:
25                System.out.println("Invalid input! Please enter Red, Yellow, or Green.");
26                scanner.close();
27                return;
28        }
29
30        System.out.println("The next traffic light color is: " + nextColor);
31        scanner.close();
32    }
33 }
```

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

```
...Program finished with exit code 0
Press ENTER to exit console.
```