PROJECT-5

import java.util.Scanner;

public class NewClass {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Prompt the user to enter the wavelength

System.out.print("Enter a color code: ");

double wavelength = scanner.nextDouble();

// Determine the color based on the wavelength

String color;

if (wavelength >= 380 && wavelength < 450) {

color = "Violet";

} else if (wavelength >= 450 && wavelength < 495) {

color = "Blue";

} else if (wavelength >= 495 && wavelength < 570) {

color = "Green";

} else if (wavelength >= 570 && wavelength < 590) {

color = "Yellow";

} else if (wavelength >= 590 && wavelength < 620) {

color = "Orange";

} else if (wavelength >= 620 && wavelength < 750) {

color = "Red";

} else {

color = "The entered wavelength is not a part of the visible spectrum";

}

// Output the result

if (color.equals("The entered wavelength is not a part of the visible spectrum")) {

System.out.println(color);

} else {

System.out.println("The color is " + color);

}

scanner.close();

}

}

