

Question:

Traffic Signal System (If-Else Simulation):

Write a program that takes user input for traffic light color (Red, Yellow, Green) and displays the appropriate action:

Red → "Stop"

Yellow → "Slow Down"

Green → "Go"

TrafficLight.java:

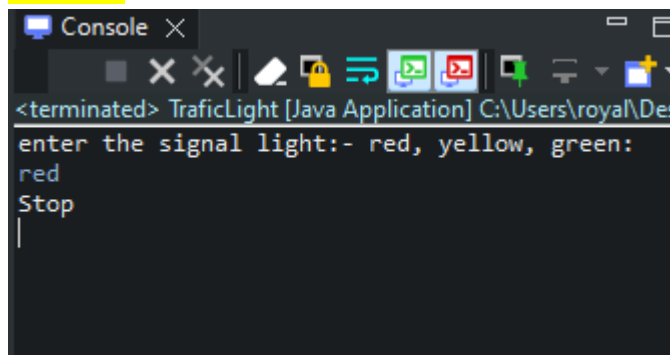
```
package Traffic;
import java.util.*;
public class TrafficLight {

    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.println("enter the signal light:- red, yellow, green: ");

        String light = s.next();

        if (light.equals("red")) {
            System.out.println("Stop");
        } else if (light.equals("yellow")) {
            System.out.println("Slow Down");
        } else if (light.equals("green")) {
            System.out.println("Go");
        } else {
            System.out.println("Invalid input!");
        }
    }
}
```

OUTPUT:



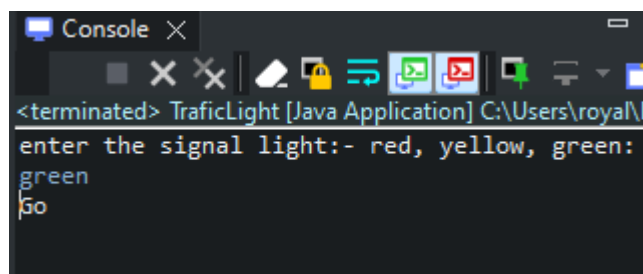
Console X

<terminated> TrafficLight [Java Application] C:\Users\royal\Des

enter the signal light:- red, yellow, green:

red

Stop



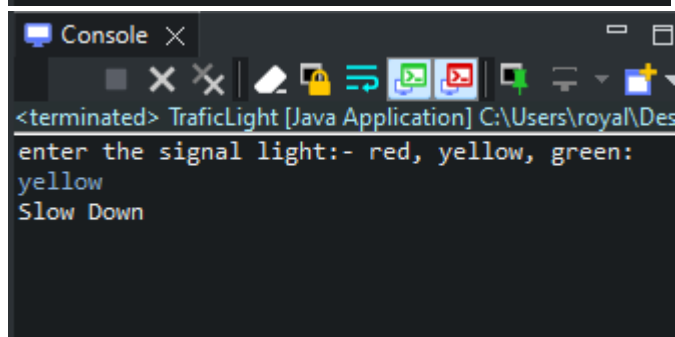
Console X

<terminated> TrafficLight [Java Application] C:\Users\royal\Des

enter the signal light:- red, yellow, green:

green

Go



Console X

<terminated> TrafficLight [Java Application] C:\Users\royal\Des

enter the signal light:- red, yellow, green:

yellow

Slow Down