

```
1 package semaforo.trafficLight.control;
2
3 import java.util.Timer;
4
5
6
7
8 public class SimpleTrafficLightControl implements TrafficLightControl {
9
10     final TrafficLight trafficLight = null;
11     State state = State.OFF;
12     private Timer timer;
13
14     private void configureAlert() {
15         TimerTask task = new TimerTask() {
16
17             @Override
18             public void run() {
19                 if (trafficLight.spotYellow().isOn()) {
20                     trafficLight.spotYellow().turnOff();
21                 } else {
22                     trafficLight.spotYellow().turnOn();
23                 }
24             }
25         };
26
27         Timer timer = new Timer();
28         timer.scheduleAtFixedRate(task, 0, 1000);
29     }
30
31     private void stopAlert() {
32
33         if (timer != null) {
34             timer.cancel();
35             timer.purge();
36         }
37         if (trafficLight.spotYellow().isOn()) {
38             trafficLight.spotYellow().turnOff();
39         }
40     }
41
42     @Override
43     public void turnAlert() {
44
45         state = State.ALERT;
46         trafficLight.spotRed().turnOff();
47         trafficLight.spotGreen().turnOff();
48         configureAlert();
49     }
50
51
52     @Override
53     public void turnGreen() {
54         stopAlert();
55         trafficLight.spotYellow().turnOff();
56         trafficLight.spotRed().turnOff();
57         trafficLight.spotGreen().turnOn();
58         state = State.GREEN;
59     }
60
61
62     @Override
63     public void turnYellow() {
64         stopAlert();
65         trafficLight.spotRed().turnOff();
```

```
66         trafficLight.spotGreen().turnOff();
67         trafficLight.spotYellow().turnOn();
68         state = State.YELLOW;
69
70     }
71
72     @Override
73     public void turnRed() {
74         stopAlert();
75         trafficLight.spotYellow().turnOff();
76         trafficLight.spotGreen().turnOff();
77         trafficLight.spotRed().turnOn();
78         state = State.RED;
79
80     }
81
82     @Override
83     public void turnOff() {
84         stopAlert();
85         trafficLight.spotYellow().turnOff();
86         trafficLight.spotGreen().turnOff();
87         trafficLight.spotRed().turnOff();
88         state = State.OFF;
89     }
90
91
92 }
93
```