

```

1  /*
2  * Scola Tutorial
3  * by Antoine B. Rauzy
4  * Electric-circuit with cloning
5  */
6
7  class Switch(block)
8      Boolean _closed true
9      Boolean inPower false
10     Boolean outPower false
11     assertion Powering
12         set outPower (if _closed inPower false)
13     end
14 end
15
16 block ElectricCircuit
17     block PowerSource
18         Boolean outPower true
19     end
20     Switch Switch1 end
21     Switch Switch2 end
22     block Lamp
23         Boolean inPower false
24     end
25     assertion Powering
26         set Switch1.inPower PowerSource.outPower
27         set Switch2.inPower Switch1.outPower
28         set Lamp.inPower Switch2.outPower
29     end
30 end
31
32 class SwitchLane(scenario)
33     state Initial
34     task Switch
35         set _closed (not _closed)
36     end
37     next Initial Switch
38     next Switch Switch
39 end
40
41 scenario Light as ElectricCircuit
42     SwitchLane Switch1Lane as Switch1 end
43     SwitchLane Switch2Lane as Switch2 end
44 end
45

```