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1  /*-----*\
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3  * Date      : 7th june 2017
4  * Diploma  : RaspiHome
5  * Classroom : T.IS-E2B
6  *
7  * Description:
8  *   RaspiHomePiFaceDigital2 is a program who use
9  *   a PiFace Digital 2, it's an electronic card who
10 *   can be use to plug electronic component. This
11 *   program use the PiFace Digital 2 to activate
12 *   light and store.
13 \*-----*/
14
15 namespace RaspiHomePiFaceDigital2
16 {
17     public class Light : Component
18     {
19         #region Fields
20         #region Constant
21         // PiFace output
22         private const byte RELAIA = PiFaceDigital2.RelayA;
23         private const byte RELAIB = PiFaceDigital2.RelayB;
24
25         // PiFace State
26         private const byte OFF = MCP23S17.Off;
27         private const byte ON = MCP23S17.On;
28         #endregion
29
30         #region Variable
31         private bool _isOn = false;
32         private bool _isOnA = false;
33         private bool _isOnB = false;
34         #endregion
35         #endregion
36
37         #region Properties
38         public bool IsOn
39         {
40             get
41             {
42                 return _isOn;
43             }
44
45             set
46             {
47                 _isOn = value;
48                 this.IsOnA = value;
49                 this.IsOnB = value;
50             }
51         }
52
53         public bool IsOnA
54         {
55             get
56             {
```

```
57         return _isOnA;
58     }
59
60     set
61     {
62         _isOnA = value;
63         if (value)
64         {
65             // Turn ON the light
66             MCP23S17.WritePin(RELAIA, ON);
67         }
68         else
69         {
70             // Turn OFF the light
71             MCP23S17.WritePin(RELAIA, OFF);
72         }
73     }
74 }
75
76 public bool IsOnB
77 {
78     get
79     {
80         return _isOnB;
81     }
82
83     set
84     {
85         _isOnB = value;
86         if (value)
87         {
88             // Turn ON the light
89             MCP23S17.WritePin(RELAIB, ON);
90         }
91         else
92         {
93             // Turn OFF the light
94             MCP23S17.WritePin(RELAIB, OFF);
95         }
96     }
97 }
98 #endregion
99
100 #region Constructor
101 #endregion
102
103 #region Methods
104 #endregion
105 }
106 }
107
```