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SHARE

IOExp7

sketch.ino   diagram.json   Library Manager   ▼

```
1  const int redPin = 13;
2  const int greenPin = 12;
3  const int yellowPin = 11;
4
5  void setup() {
6      pinMode(redPin, OUTPUT);
7      pinMode(greenPin, OUTPUT);
8      pinMode(yellowPin, OUTPUT);
9
10     digitalWrite(redPin, LOW);
11     digitalWrite(greenPin, LOW);
12     digitalWrite(yellowPin, LOW);
13
14     Serial.begin(9600);
15     Serial.println("System ready. Send 'b' for blink, 'g' for green, 'r' for red, 'y' for yellow");
16 }
17
18 void loop() {
19     if (Serial.available() > 0) {
20         char ip = Serial.read();
21
22         // Reset all LEDs
23         digitalWrite(redPin, LOW);
24         digitalWrite(greenPin, LOW);
25         digitalWrite(yellowPin, LOW);
26
27         if (ip == 'b') {
28             for(int i = 0; i < 5; i++) {
29                 digitalWrite(greenPin, HIGH);
30                 delay(500);
31                 digitalWrite(greenPin, LOW);
32                 delay(500);
33             }
34         }
35         if (ip == 'g') {
36             digitalWrite(greenPin, HIGH);
37             delay(500);
38             digitalWrite(greenPin, LOW);
39             delay(500);
40         }
41         if (ip == 'r') {
42             digitalWrite(redPin, HIGH);
43             delay(500);
44             digitalWrite(redPin, LOW);
45             delay(500);
46         }
47         if (ip == 'y') {
48             digitalWrite(yellowPin, HIGH);
49             delay(500);
50             digitalWrite(yellowPin, LOW);
51             delay(500);
52         }
53     }
54 }
```

Simulation

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