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1 // These variables store the flash pattern
2 // and the current state of the LED
3
4 int fan = 16; // the number of the LED pin
5 int ledState1 = HIGH; // ledState used to set the LED
6 unsigned long previousMillis1 = 0; // will store last time LED was updated
7 long OnTime1 = 5000; // milliseconds of on-time
8 long OffTime1 = 20000; // milliseconds of off-time
9
10 int heater = 2; // the number of the LED pin
11 int ledState2 = HIGH; // ledState used to set the LED
12 unsigned long previousMillis2 = 0; // will store last time LED was updated
13 long OnTime2 = 5000; // milliseconds of on-time
14 long OffTime2 = 20000; // milliseconds of off-time
15
16 int flap = 5;
17 int alarm = 4;
18
19
20 void setup()
21 {
22   Serial.begin(9600);
23   // set the digital pin as output:
24   pinMode(fan, OUTPUT);
25   pinMode(heater, OUTPUT);
26   pinMode(flap, OUTPUT);
27   pinMode(alarm, OUTPUT);
28   digitalWrite(fan, HIGH);
29   digitalWrite(heater, HIGH);
30   digitalWrite(flap, HIGH);
31   digitalWrite(alarm, HIGH);
32 }
33
34 void loop()
35 {
36   // check to see if it's time to change the state of the LED
37   unsigned long currentMillis = millis();
38
39   if((ledState1 == LOW) && (currentMillis - previousMillis1 >= OnTime1))
40   {
41     ledState1 = HIGH; // Turn it off
42     previousMillis1 = currentMillis; // Remember the time
43     digitalWrite(fan, ledState1); // Update the actual LED
44     Serial.print("FAN OFF FOR NEXT 20 SECOND : "); Serial.println(currentMillis);
45   }
46   else if ((ledState1 == HIGH) && (currentMillis - previousMillis1 >= OffTime1))
47   {
48     ledState1 = LOW; // turn it on
49     previousMillis1 = currentMillis; // Remember the time
50     digitalWrite(fan, ledState1); // Update the actual LED
51     Serial.print("FAN ON FOR NEXT 5 SECOND : "); Serial.println(currentMillis);
52   }
53
54   if((ledState2 == LOW) && (currentMillis - previousMillis2 >= OnTime2))
55   {
56     ledState2 = HIGH; // Turn it off
57     previousMillis2 = currentMillis; // Remember the time
58     digitalWrite(heater, ledState2); // Update the actual LED
59     Serial.print("HEATER OFF FOR NEXT 20 SECOND : "); Serial.println(currentMillis);
60   }
61   else if ((ledState2 == HIGH) && (currentMillis - previousMillis2 >= OffTime2))
62   {
63     ledState2 = LOW; // turn it on
64     previousMillis2 = currentMillis; // Remember the time
65     digitalWrite(heater, ledState2); // Update the actual LED
66     Serial.print("HEATER ON FOR NEXT 5 SECOND : "); Serial.println(currentMillis);
67   }
68 }

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