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V2.ino x
C:\Users> Swarali Limaye > OneDrive > Desktop > Anvesh Temp > V2.ino
1  #include <WiFi.h>
2  #include <HTTPClient.h>
3  #include <DHT11.h>
4
5  DHT11 dht11(18);
6  const char* wifiname = "IoT";
7  const char* password = "IoT@1234";
8  const char* serverName = "http://api.thingspeak.com/update";
9  String apiKey = "OEAIEWIFRQ7RFP6V";//your write API key
10
11 void setup() {
12     Serial.begin(115200);
13     WiFi.begin(wifiname, password);
14     Serial.println("Connecting");
15     while(WiFi.status() != WL_CONNECTED) {
16         delay(500);
17         Serial.print(".");
18     }
19     Serial.println("");
20     Serial.print("Connected to WiFi network with IP Address: ");
21     Serial.println(WiFi.localIP());
22 }
23
24 void loop() {
25
26     if(WiFi.status()== WL_CONNECTED){
27         WiFiClient client;
28         HTTPClient http;
29         delay(1000);
30
31         int temperature = 0;
32         int humidity = 0;
33         int result = dht11.readTemperatureHumidity(temperature, humidity);
34
35         if (result == 0) {
36             Serial.print("Temperature: ");
37             Serial.print(temperature);
38             Serial.print(" °C\tHumidity: ");
39             Serial.print(humidity);
40             Serial.println(" %");
41             delay(2000);
42         } else {
43             Serial.println(DHT11::getErrorString(result));
44         }
45
46         http.begin(client, serverName);
47
48         http.addHeader("Content-Type", "application/x-www-form-urlencoded");
49         String httpRequestData = "api_key=" + apiKey + "&field1=" + String(temperature);
50         int httpResponseCode = http.POST(httpRequestData);
51         Serial.print("HTTP Response code: ");
52         Serial.println(httpResponseCode);
53
54         http.end();
55     }
56
57     else {
58         Serial.println("WiFi Disconnected");
59     }
60 }
61
```