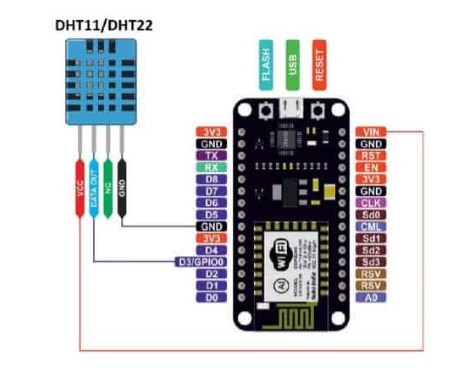
**Monitor Humidity Temperature Data on Thing Speak**

**Circuit Diagram:**

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**Program:**

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| --- |
| #include <DHT.h>  // Including library for dht    #include <ESP8266WiFi.h>    String apiKey = "I4BPMHEGZ2QK9K3J";     //  Enter your Write API key from ThingSpeak    const char \*ssid =  "how2electronics";     // replace with your wifi ssid and wpa2 key  const char \*pass =  "alhabibi";  const char\* server = "api.thingspeak.com";    #define DHTPIN 0          //pin where the dht11 is connected    DHT dht(DHTPIN, DHT11);    WiFiClient client;    void setup()  {         Serial.begin(115200);         delay(10);         dht.begin();           Serial.println("Connecting to ");         Serial.println(ssid);             WiFi.begin(ssid, pass);          while (WiFi.status() != WL\_CONNECTED)       {              delay(500);              Serial.print(".");       }        Serial.println("");        Serial.println("WiFi connected");    }    void loop()  {          float h = dht.readHumidity();        float t = dht.readTemperature();                  if (isnan(h) || isnan(t))                   {                       Serial.println("Failed to read from DHT sensor!");                        return;                   }                             if (client.connect(server,80))   //   "184.106.153.149" or api.thingspeak.com                        {                                 String postStr = apiKey;                               postStr +="&field1=";                               postStr += String(t);                               postStr +="&field2=";                               postStr += String(h);                               postStr += "\r\n\r\n";                                 client.print("POST /update HTTP/1.1\n");                               client.print("Host: api.thingspeak.com\n");                               client.print("Connection: close\n");                               client.print("X-THINGSPEAKAPIKEY: "+apiKey+"\n");                               client.print("Content-Type: application/x-www-form-urlencoded\n");                               client.print("Content-Length: ");                               client.print(postStr.length());                               client.print("\n\n");                               client.print(postStr);                                 Serial.print("Temperature: ");                               Serial.print(t);                               Serial.print(" degrees Celcius, Humidity: ");                               Serial.print(h);                               Serial.println("%. Send to Thingspeak.");                          }            client.stop();              Serial.println("Waiting...");      // thingspeak needs minimum 15 sec delay between updates    delay(1000);  } |