[嵌入式系統設計](https://flipclass.stust.edu.tw/course/13883)第十次作業

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1. 題目



1. 程式

#include <WiFi.h>

#include "ThingSpeak.h" // always include thingspeak header file after other header files and custom macros

char ssid[] = "WY1010"; // your network SSID (name)

char pass[] = "20041010311"; // your network password

int keyIndex = 0; // your network key Index number (needed only for WEP)

WiFiClient client;

unsigned long myChannelNumber = 1929332;

const char \* myWriteAPIKey = "B6JDRXKHR26NLO0V";

int z[2];

void setup() {

Serial.begin(115200); //Initialize serial

while (!Serial) {

; // wait for serial port to connect. Needed for Leonardo native USB port only

}

Serial.println();

Serial.println();

Serial.print("Connecting to ");

Serial.println(ssid);

WiFi.begin(ssid, pass);

while (WiFi.status() != WL\_CONNECTED) {

delay(500);

Serial.print(".");

}

Serial.println("");

Serial.println("WiFi connected.");

Serial.println("IP address: ");

Serial.println(WiFi.localIP());

ThingSpeak.begin(client); // Initialize ThingSpeak

}

void loop() {

if (Serial.available() > 1) {

z[0] = Serial.parseInt();

z[1] = Serial.parseInt();

ThingSpeak.setField(1, z[0]);

ThingSpeak.setField(2, z[1]);

Serial.println(z[0]);

Serial.println(z[1]);

int x = ThingSpeak.writeFields(myChannelNumber, myWriteAPIKey);

if (x == 200) {

Serial.println("Channel update successful.");

}

else {

Serial.println("Problem updating channel. HTTP error code " + String(x));

}

}

delay(20000); // Wait 20 seconds to update the channel again

}

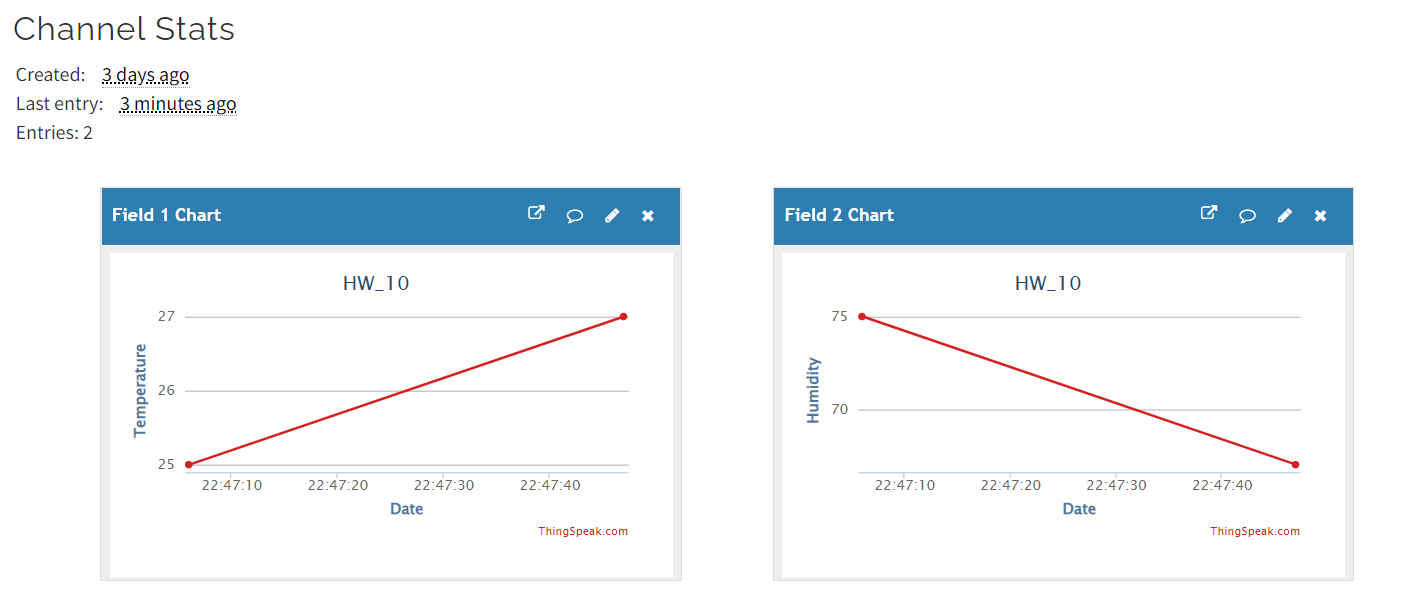
1. 程式說明

輸入兩組數字後，傳到Thingspeak資料channel DHT11中，其中第一個數字代表溫度，第二個數字代表濕度。

1. 執行結果

一張含有 文字 的圖片

自動產生的描述



影片連結： <https://youtu.be/dIUkUVSoEpc>