#include <DHT.h>  
#include <ESP8266WiFi.h>  
  
// replace with your channel's thingspeak API key,   
String apiKey = "4BML6X4G4S7OQC3K";  
const char\* ssid = "Oh.shitz Family";  
const char\* password = "88888888";  
  
const char\* server = "[api.thingspeak.com](http://api.thingspeak.com/)";  
#define DHTPIN 2 // what pin we're connected to  
// note GPIO5 is D1 at NodeMCU - <http://www.14core.com/wp-content/uploads/2015/06/Node-MCU-Pin-Out-Diagram1.png>  
//#define DHTTYPE DHT11 // DHT 11   
#define DHTTYPE DHT22 // DHT 22   
DHT dht(DHTPIN, DHTTYPE,11);  
WiFiClient client;  
  
  
void setup() {   
Serial.begin(115200);  
delay(10);  
dht.begin();  
  
WiFi.begin(ssid, password);  
  
Serial.println();  
Serial.println();  
Serial.print("Connecting to ");  
Serial.println(ssid);  
  
WiFi.begin(ssid, password);  
  
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](http://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](http://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(60000);   
}