Week 7

#include <DHT.h>

#include <DHT\_U.h>

#include <ESP8266WiFi.h>

String apiKey = "ZYUP9R7N15OEBYRO";  //

const char \*ssid =  "surekha";

const char \*pass =  "sakhison";

const char\* server = "api.thingspeak.com";

#define DHTPIN D3

DHT dht(DHTPIN, DHT11);

WiFiClient client;

 void setup()

{

  Serial.begin(115200);

  delay(1000);

  dht.begin();

  Serial.println("Connecting to ");

  Serial.println(ssid);

  WiFi.begin(ssid, pass);

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

  {

    delay(2000);

    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...");

  delay(1000);

}

Output





