**Week 8**

#include "ThingSpeak.h"

#include <ESP8266WiFi.h>

#include<DHT.h>

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

const char pass[] = "sakhison";   // your network password

int statusCode = 0;

WiFiClient  client;

//---------Channel Details---------//

unsigned long counterChannelNumber =  2846266;            // Channel ID

const char \* myCounterReadAPIKey = "SXJMCVLJWIZMZLLF"; // Read API Key

const int FieldNumber1 = 1;  // The field you wish to read

const int FieldNumber2 = 2;  // The field you wish to read

//-------------------------------//

void setup()

{

  Serial.begin(115200);

  WiFi.mode(WIFI\_STA);

  ThingSpeak.begin(client);

}

void loop()

{

  //----------------- Network -----------------//

  if (WiFi.status() != WL\_CONNECTED)

  {

    Serial.print("Connecting to ");

    Serial.print(ssid);

    Serial.println(" ....");

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

    {

      WiFi.begin(ssid, pass);

      delay(5000);

    }

    Serial.println("Connected to Wi-Fi Succesfully.");

  }

  //--------- End of Network connection--------//

  //---------------- Channel 1 ----------------//

  long temp = ThingSpeak.readLongField(counterChannelNumber, FieldNumber1, myCounterReadAPIKey);

  statusCode = ThingSpeak.getLastReadStatus();

  if (statusCode == 200)

  {

    Serial.print("Temperature: ");

    Serial.println(temp);

  }

  else

  {

    Serial.println("Unable to read channel / No internet connection");

  }

  delay(100);

  //-------------- End of Channel 1 -------------//

  //---------------- Channel 2 ----------------//

  long humidity = ThingSpeak.readLongField(counterChannelNumber, FieldNumber2, myCounterReadAPIKey);

  statusCode = ThingSpeak.getLastReadStatus();

  if (statusCode == 200)

  {

    Serial.print("Humidity: ");

    Serial.println(humidity);

  }

  else

  {

    Serial.println("Unable to read channel / No internet connection");

  }

  delay(100);

  //-------------- End of Channel 2 -------------//

}





