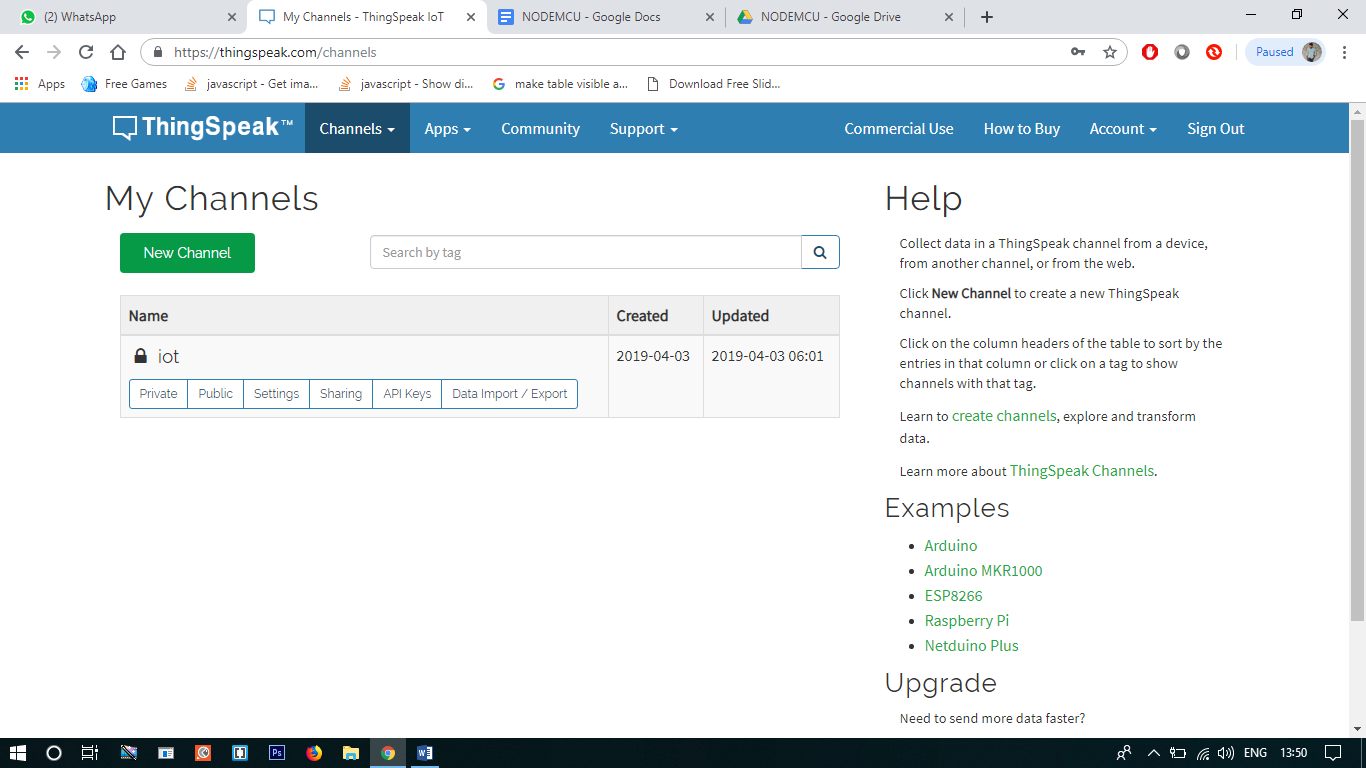
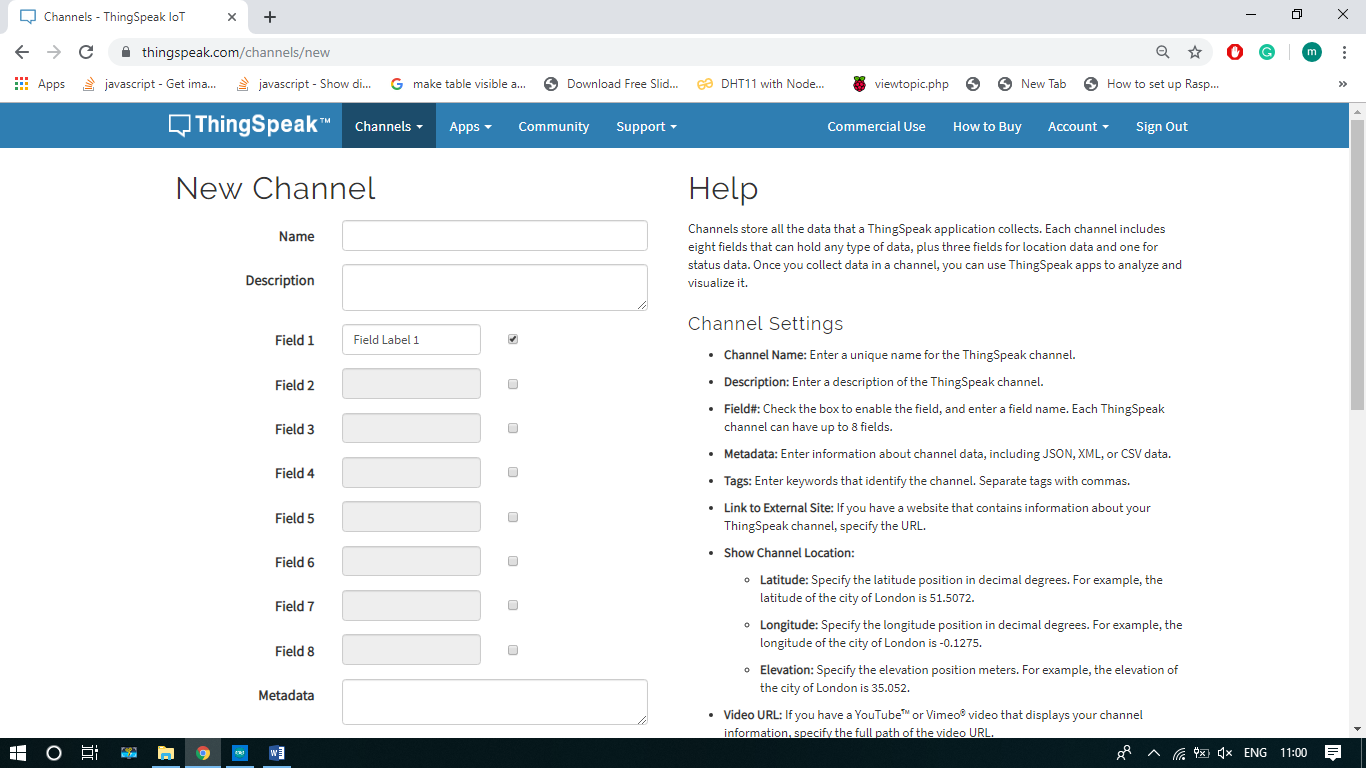
**Sending Moisture Data to Thingspeak Using Nodemcu**

Step 1: Setting Up the ThingSpeak

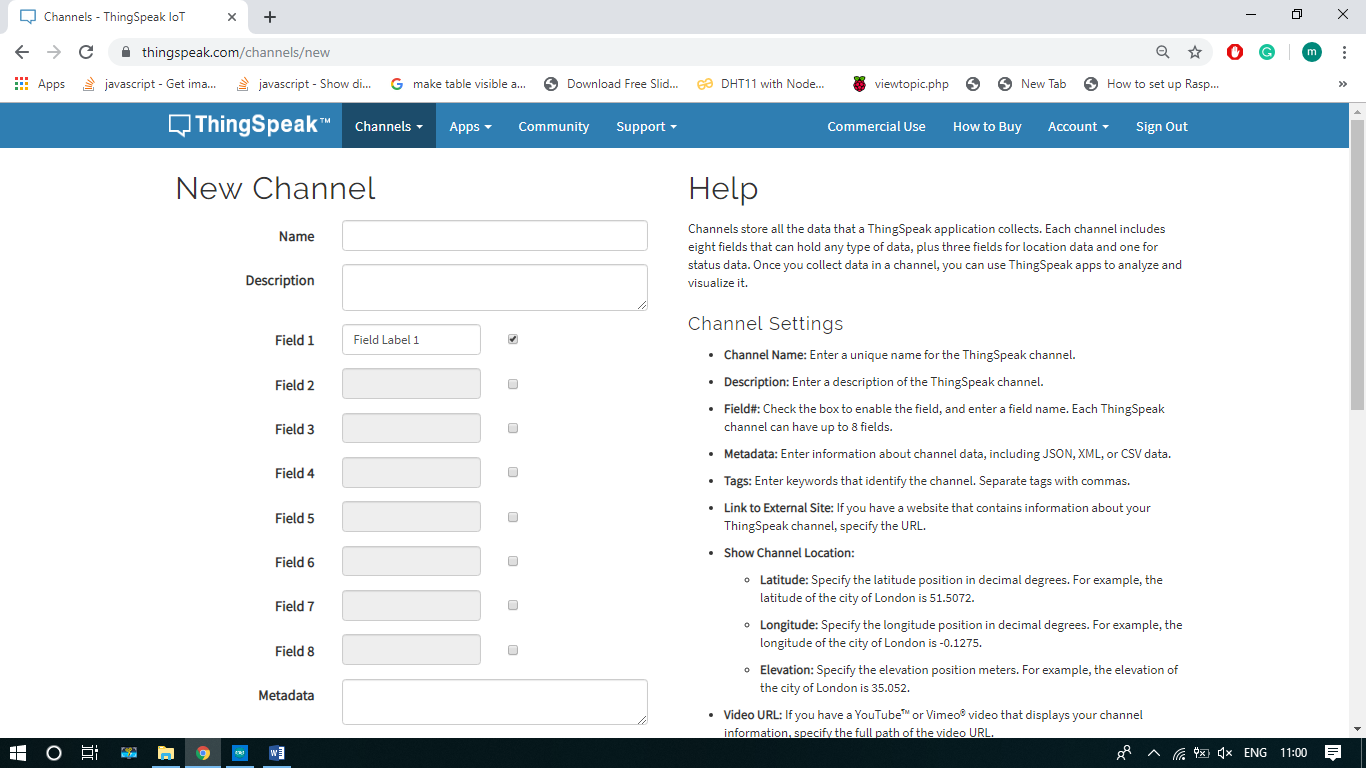
Go to <https://thingspeak.com/> and Sign up a free account



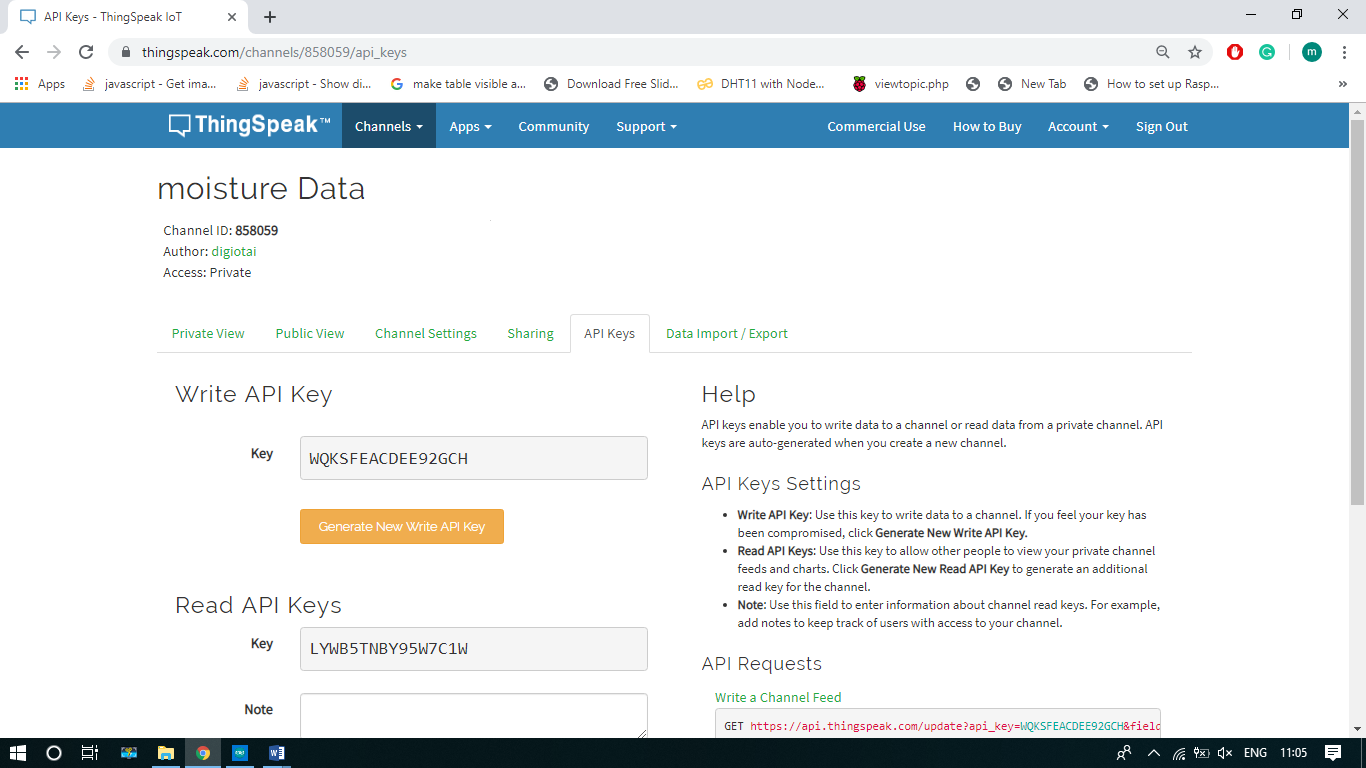
Then Click on New Channel



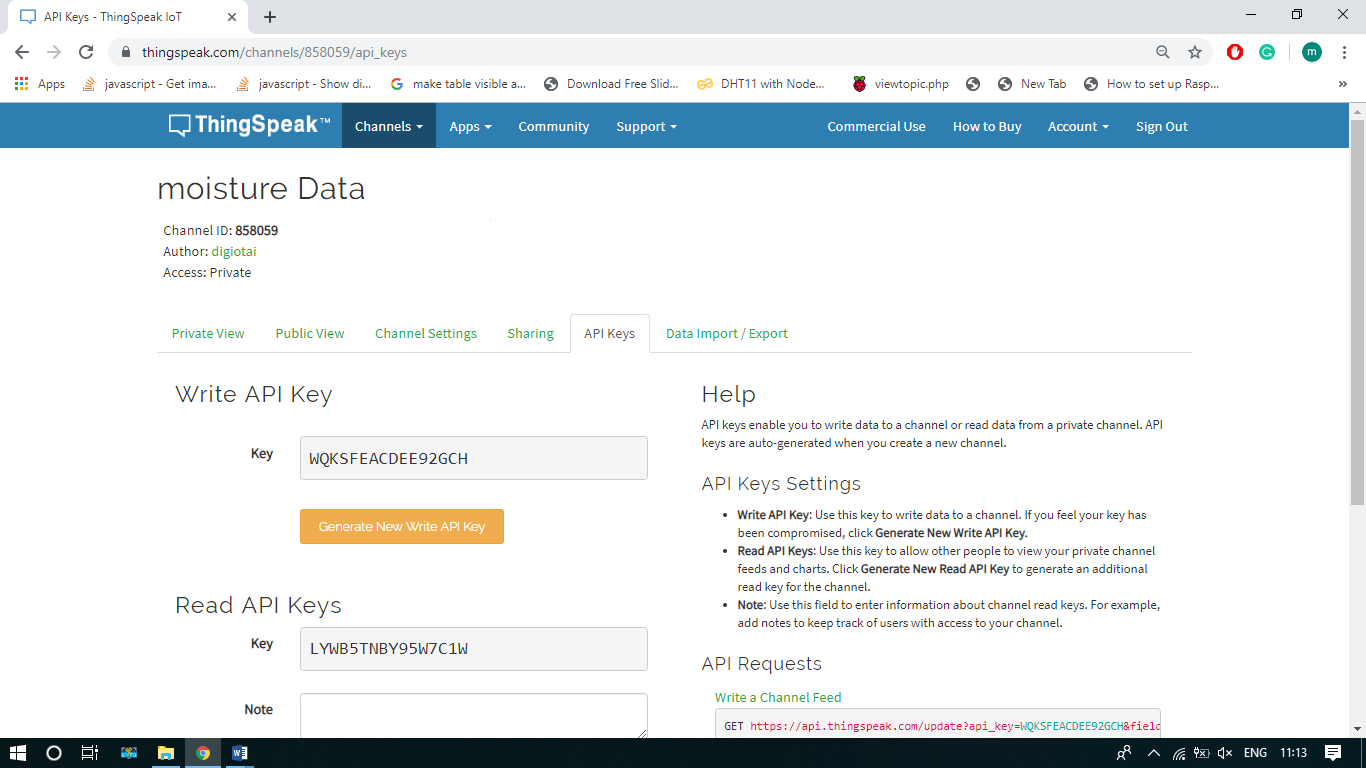
Then fill the required fields and click on Save Channel



Then navigate through API Keys



Now Copy the API Key and paste it in Source code.



Now copy the below code and execute it in Arduino IDE

**#include <ESP8266WiFi.h>**

**#include <Wire.h>**

**// replace with your channel's thingspeak API key,**

**String apiKey = "WQKSFEACDEE92GCH";**

**const char\* ssid = "ACT FIBERNET";**

**const char\* password = "act12345";**

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

**WiFiClient client;**

**void setup() {**

**Serial.begin(115200);**

**pinMode(A0,INPUT);**

**WiFi.begin(ssid, password);**

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

**delay(300);**

**Serial.print(".");**

**}**

**Serial.println("");**

**Serial.println("connecting to....");**

**Serial.println("WiFi connected");**

**}**

**void loop() {**

**int temp = analogRead(A0);**

**if (client.connect(server,80)) { // "184.106.153.149" or api.thingspeak.com**

**String postStr = apiKey;**

**postStr +="&field1=";**

**postStr += String(temp);**

**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("Moisture Sensor Value: ");**

**Serial.print(temp);**

**Serial.println("sent to Thingspeak");**

**}**

**client.stop();**

**Serial.println("Waiting...");**

**// thingspeak needs minimum 15 sec delay between updates**

**// Here I set upload every 60 seconds**

**{**

**delay(10000);**

**}**

**}**

After compiling the code now browse to ThingSpeak console and check the Graph as shown in below

