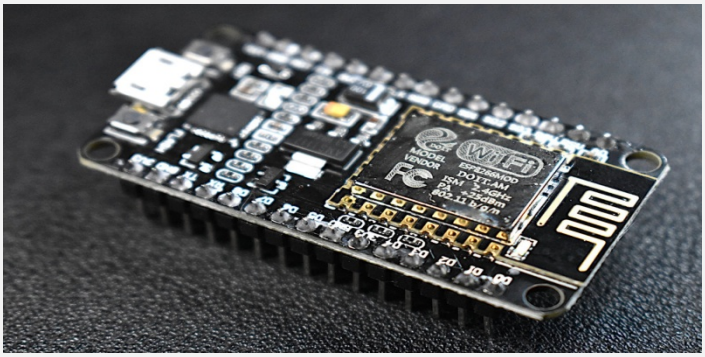
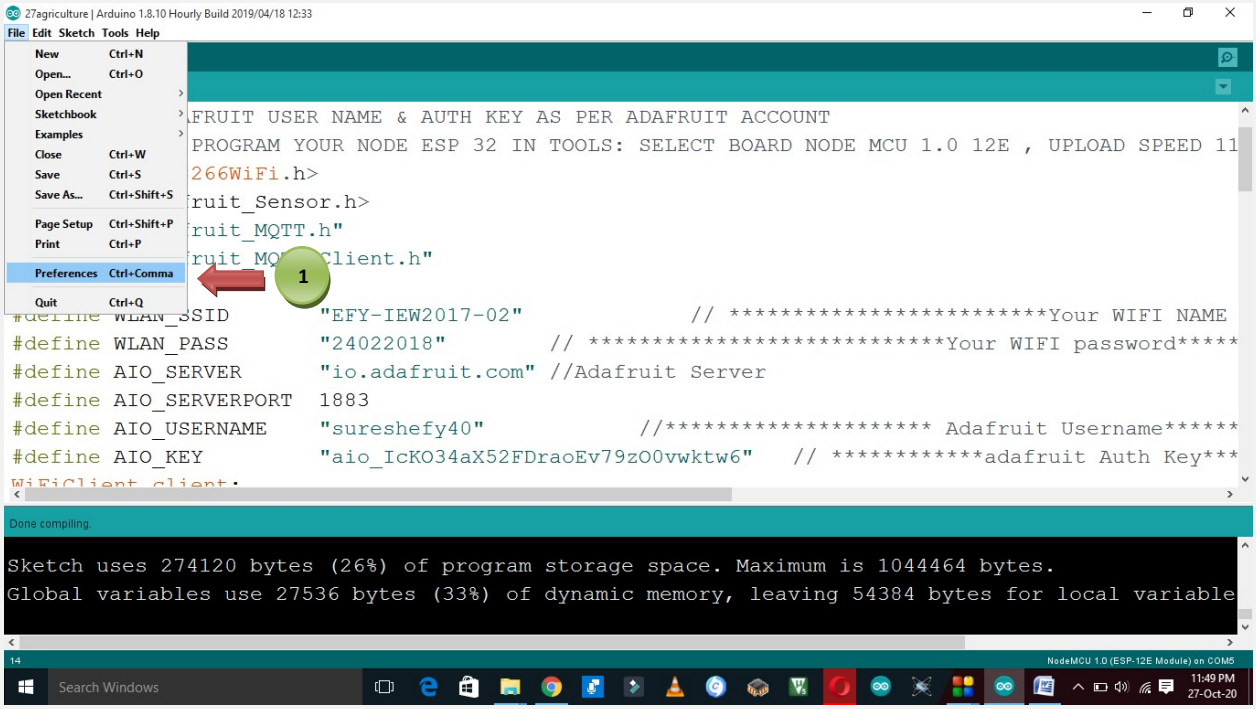
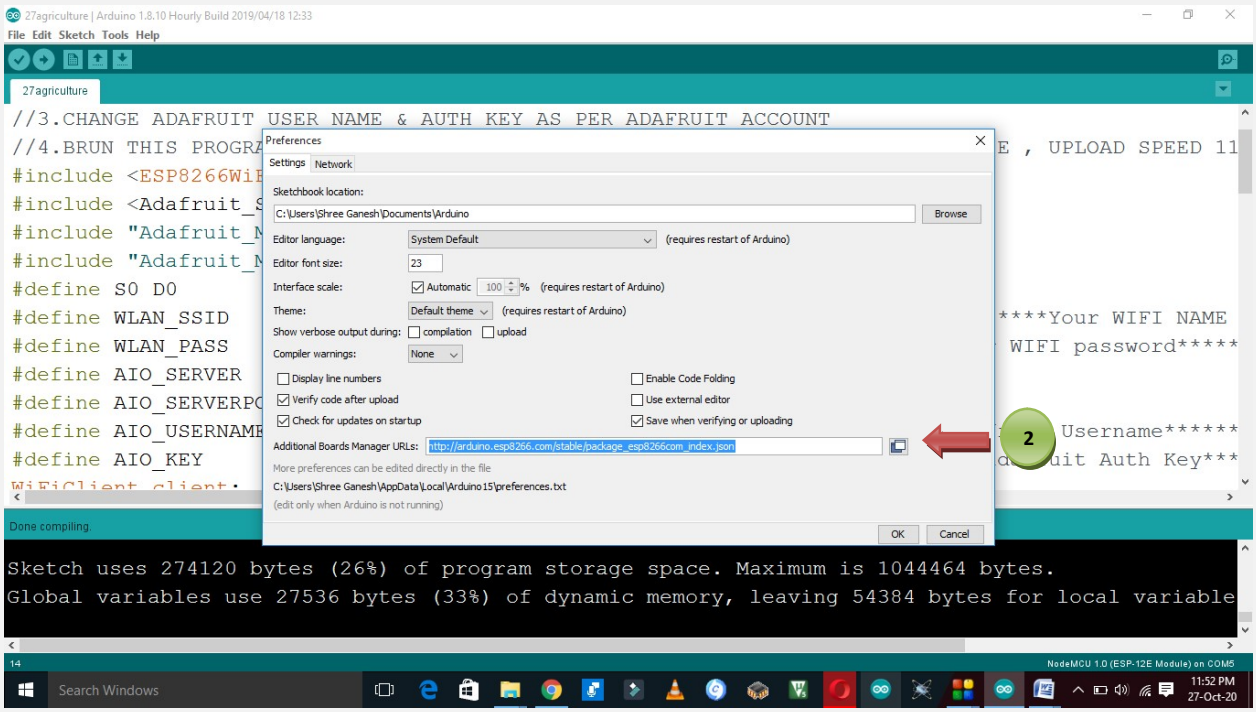


Step 1: Go in file tab/button on left top in toolbar and move for preferences .

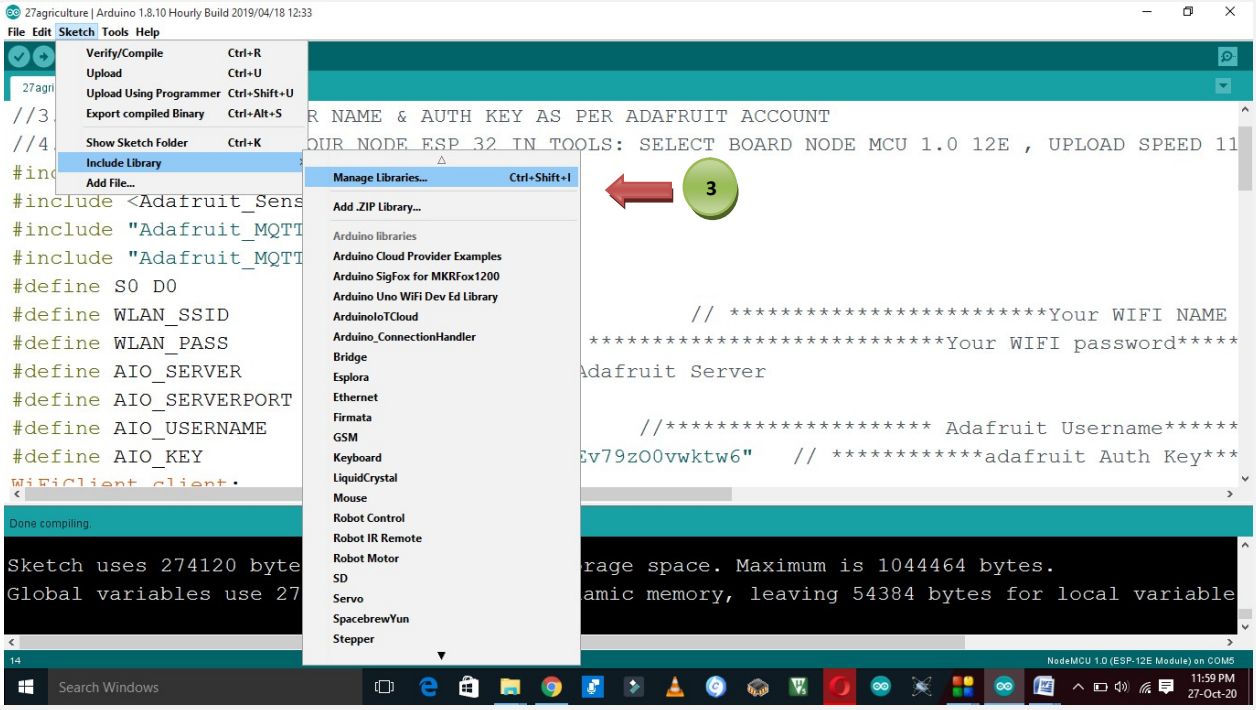


Step 2: add link in Additional board manager URLs:

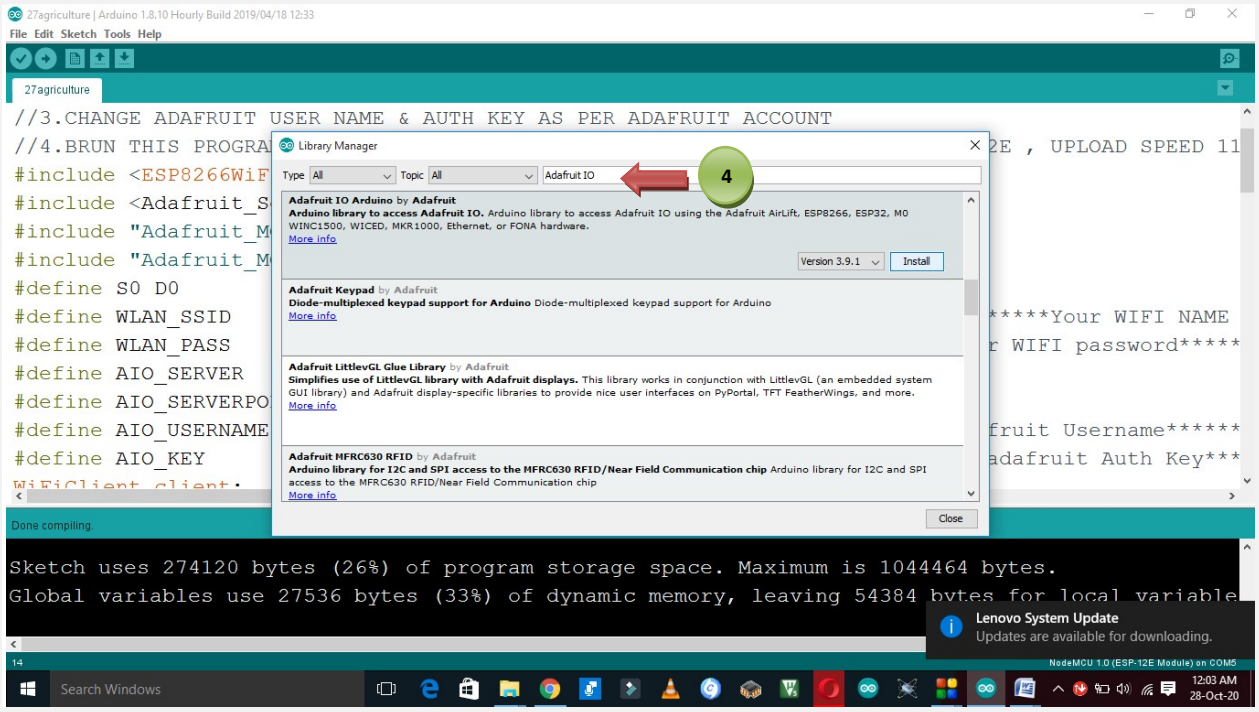
http://arduino.esp8266.com/stable/package_esp8266com_index.json



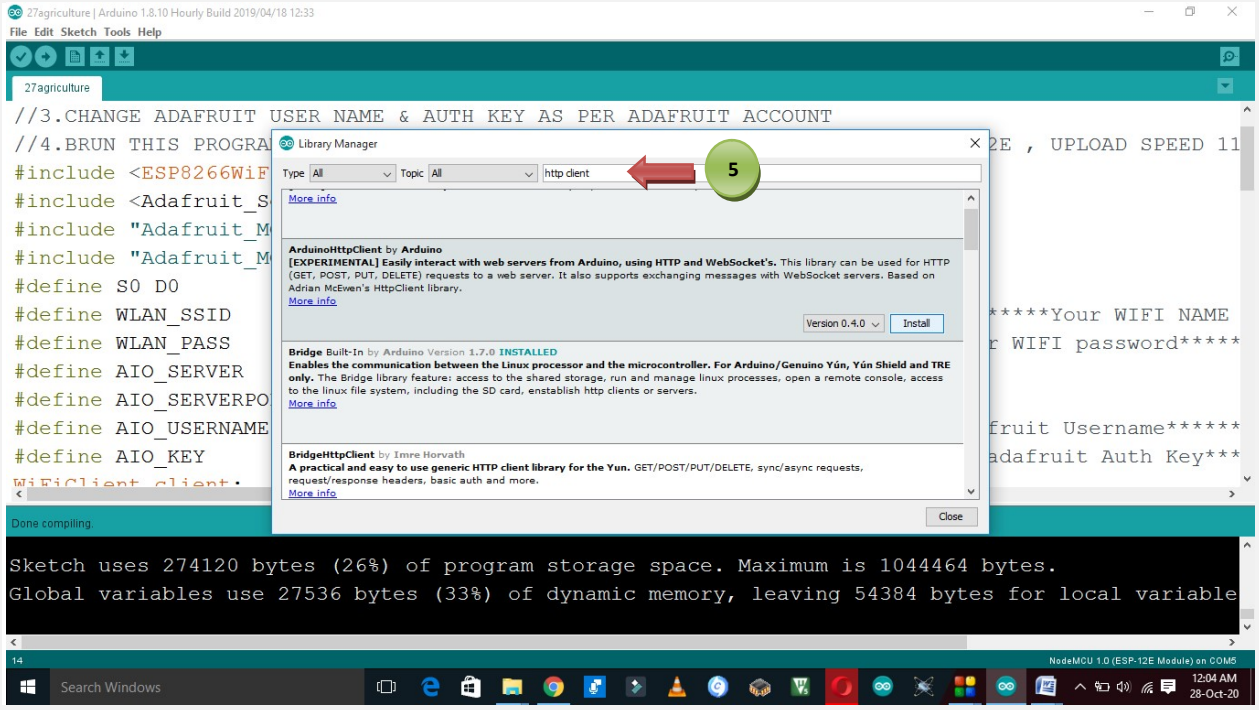
Step 3.: Get and Install the three nos. required Libraries used in prog for Node MCU8266 ESP 32 uc.



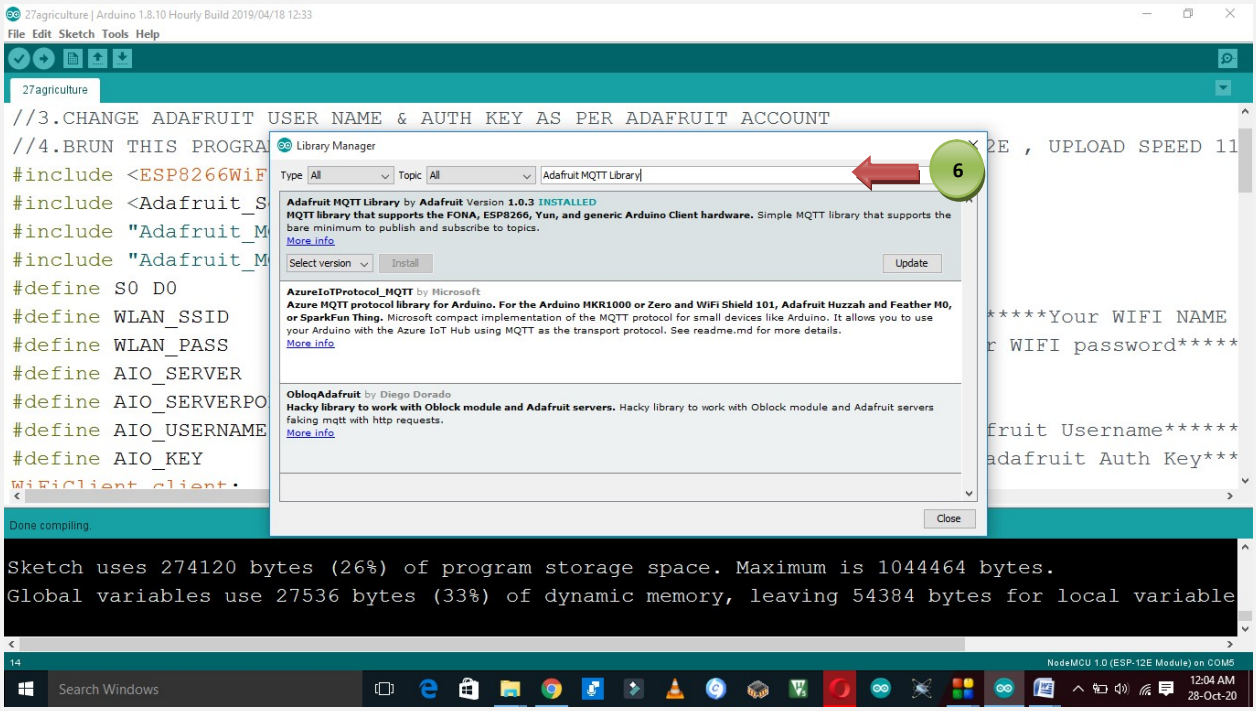
Step 4.: The first library that we need to get is the Adafruit IO library, which can be found by typing "Adafruit IO" into the library managers search bar. Once found, click the library in the list to install it.



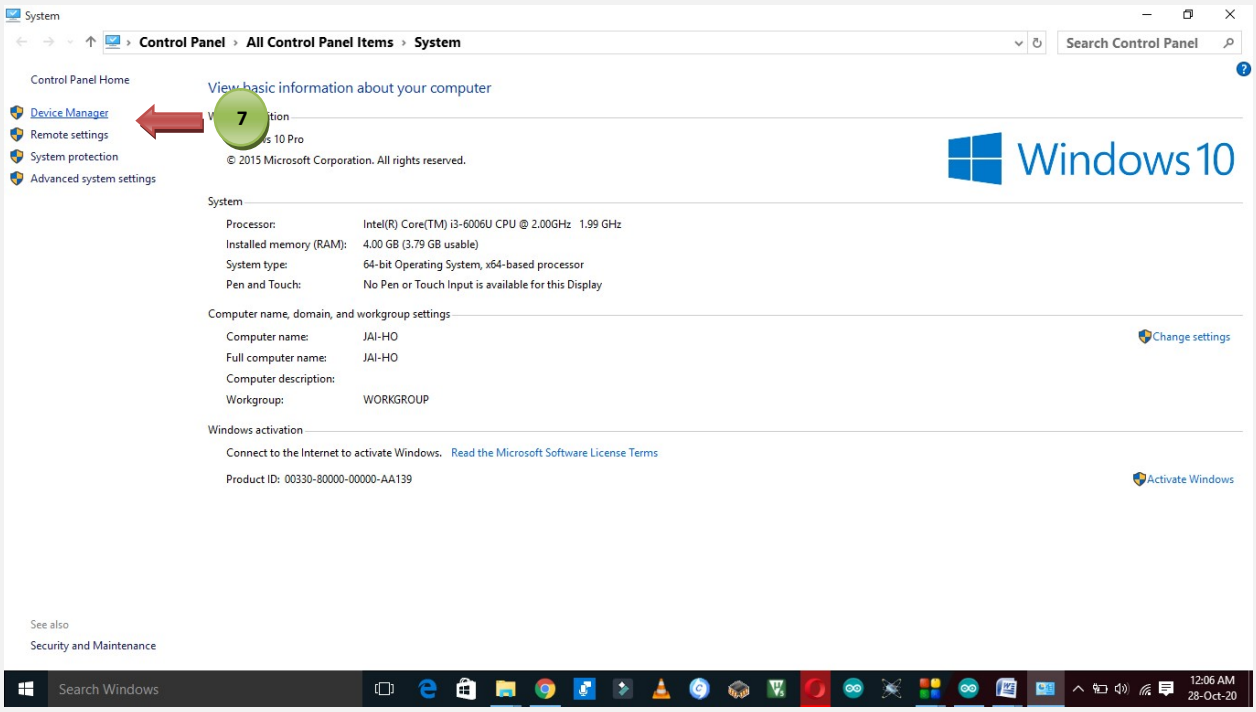
Step 5.: The second library we need to get is the HTTP Client library, which can be found by searching "http client".



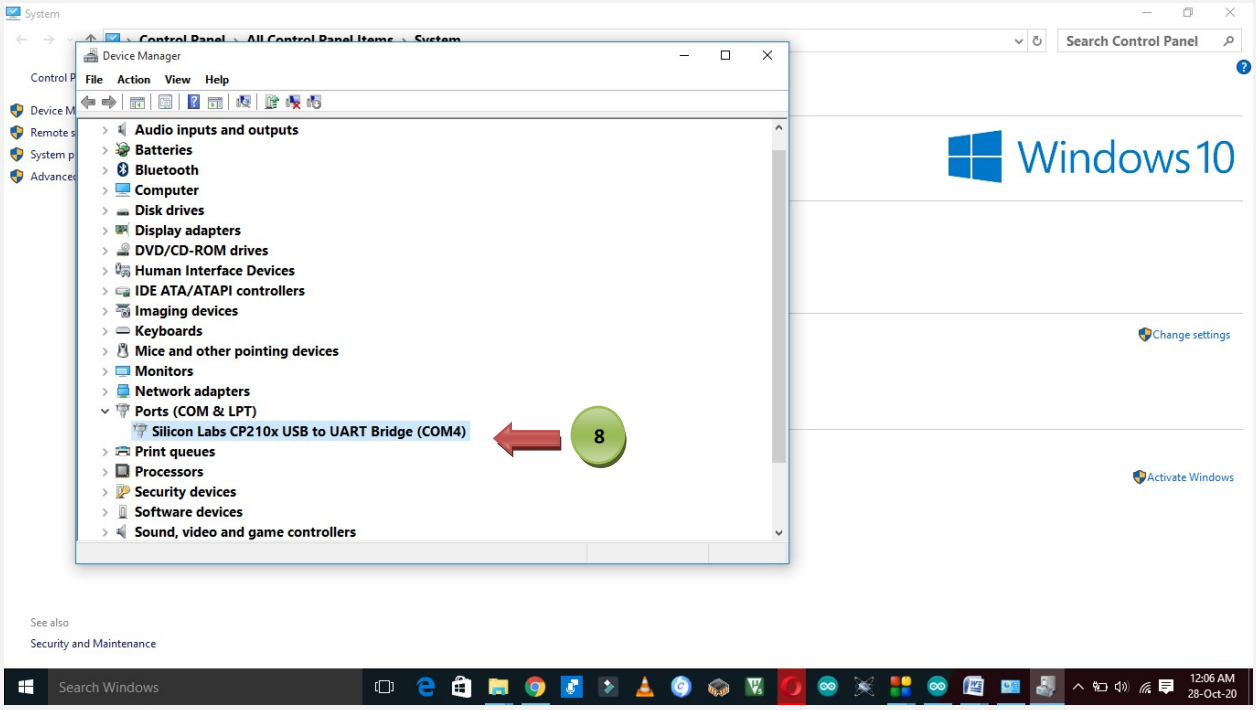
Step 6.: The last library we need to get is the Adafruit MQTT library, which can be found by searching "Adafruit MQTT Library".



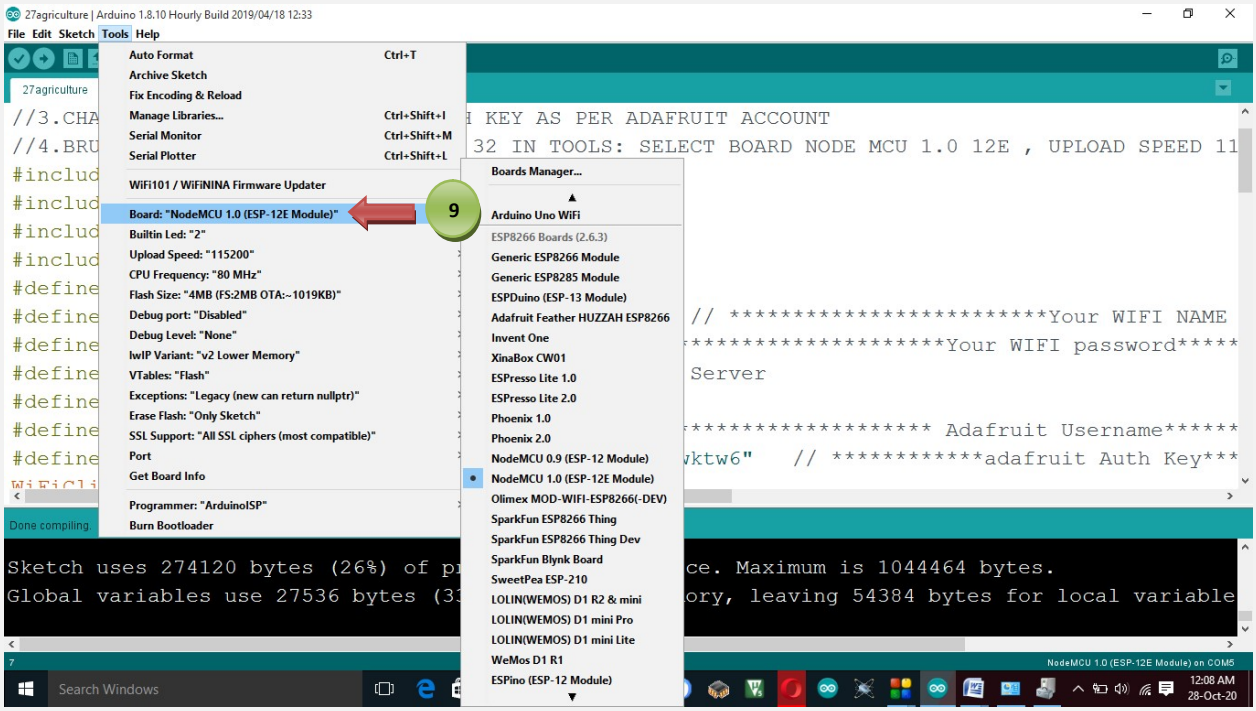
Step 7: Add Board: Go in device Manager ->



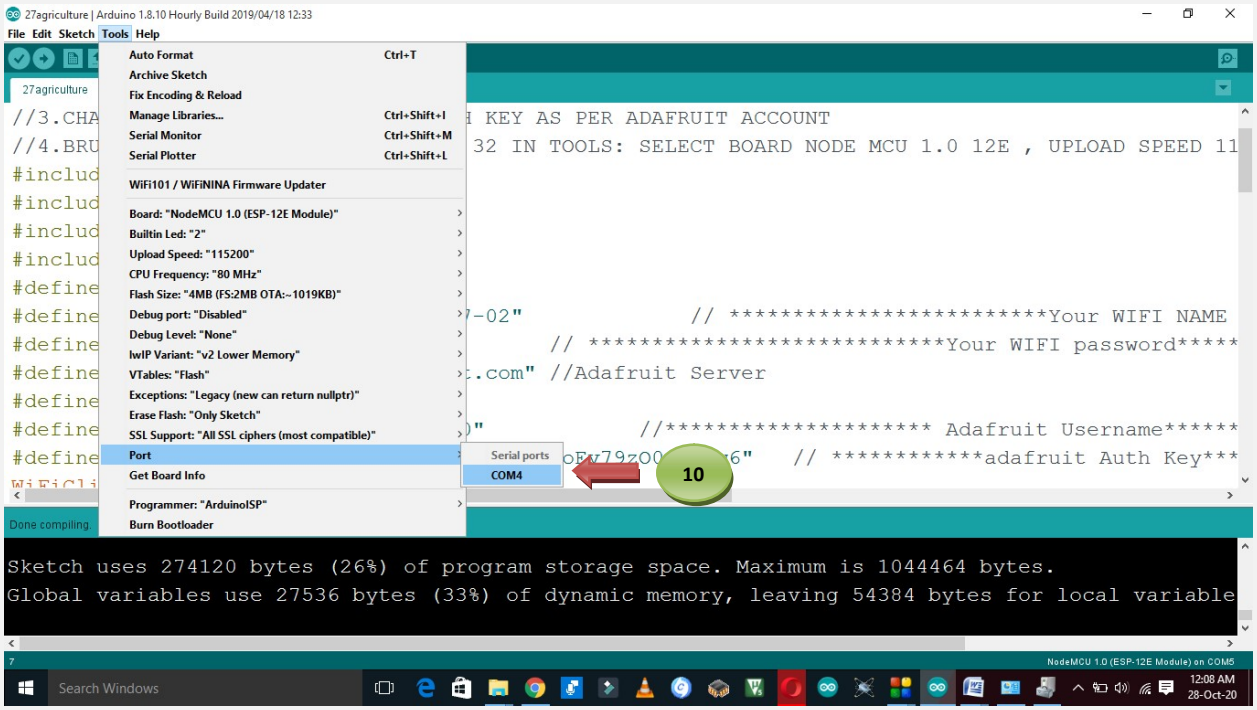
Step 8: Check communication Port:



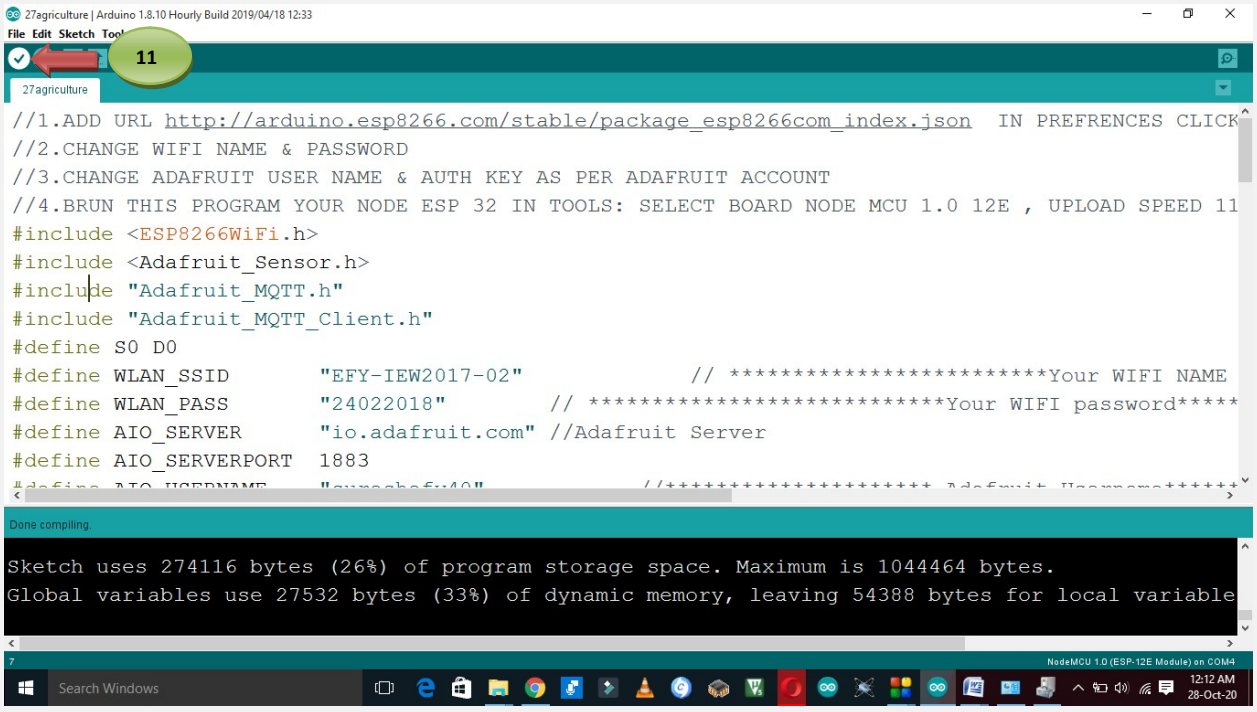
Step 9: Board select:



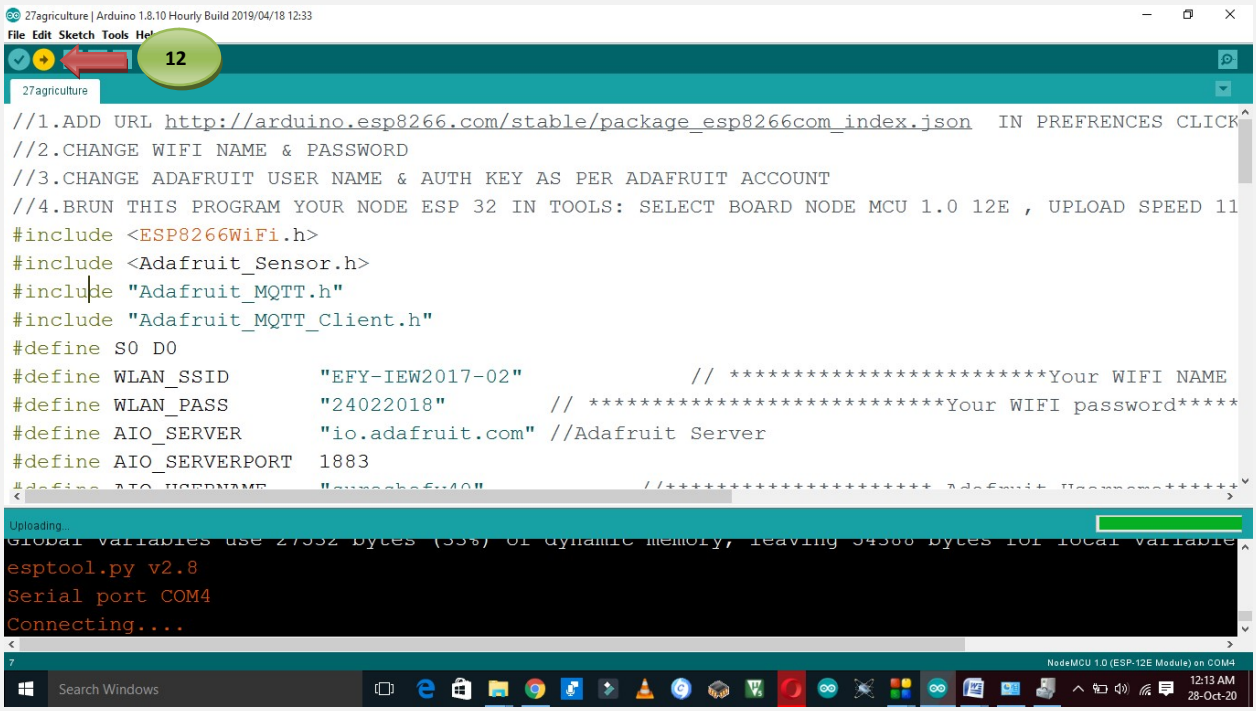
Step 10: Port selection:

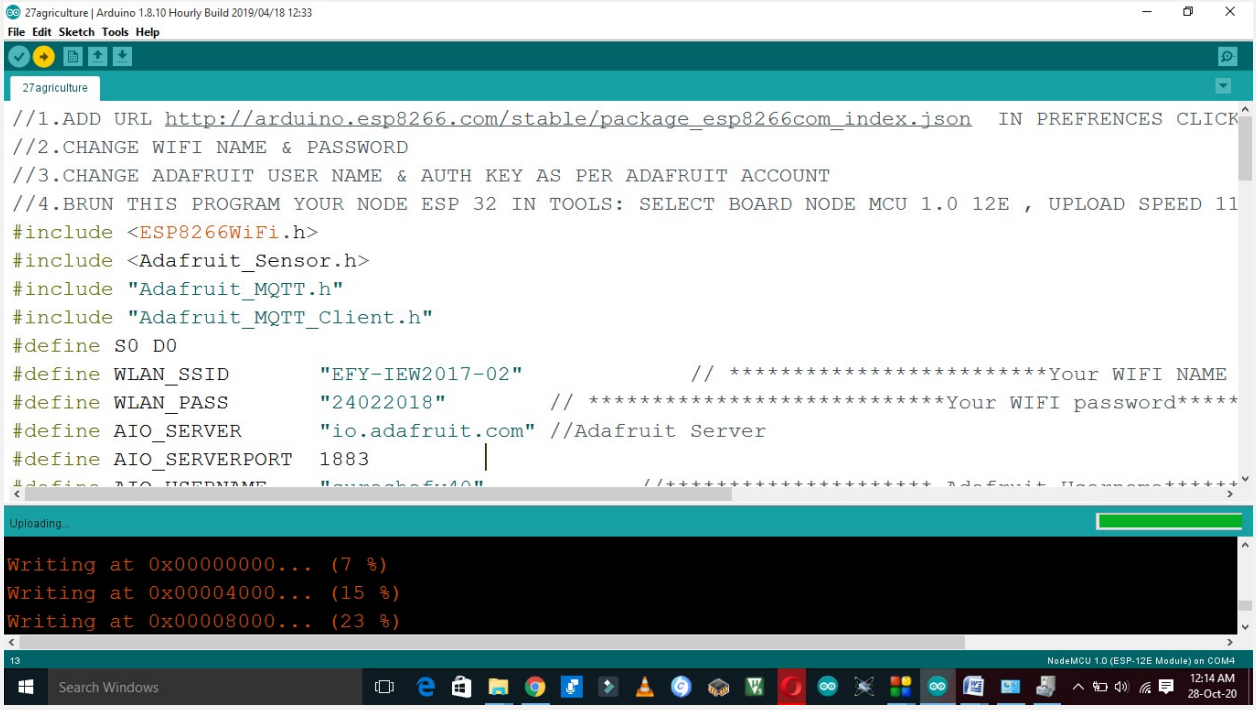


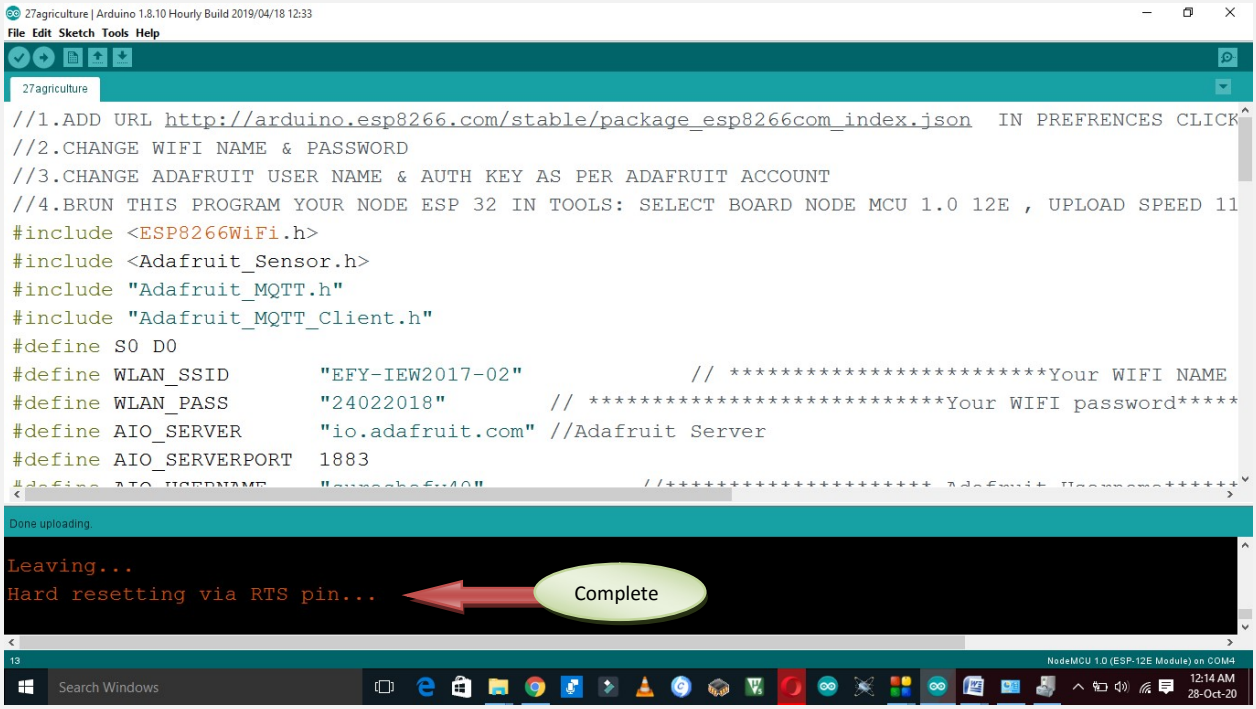
Step 11: Verify the program and see done compiling at bottom ->



Step 12: Upload Program ->





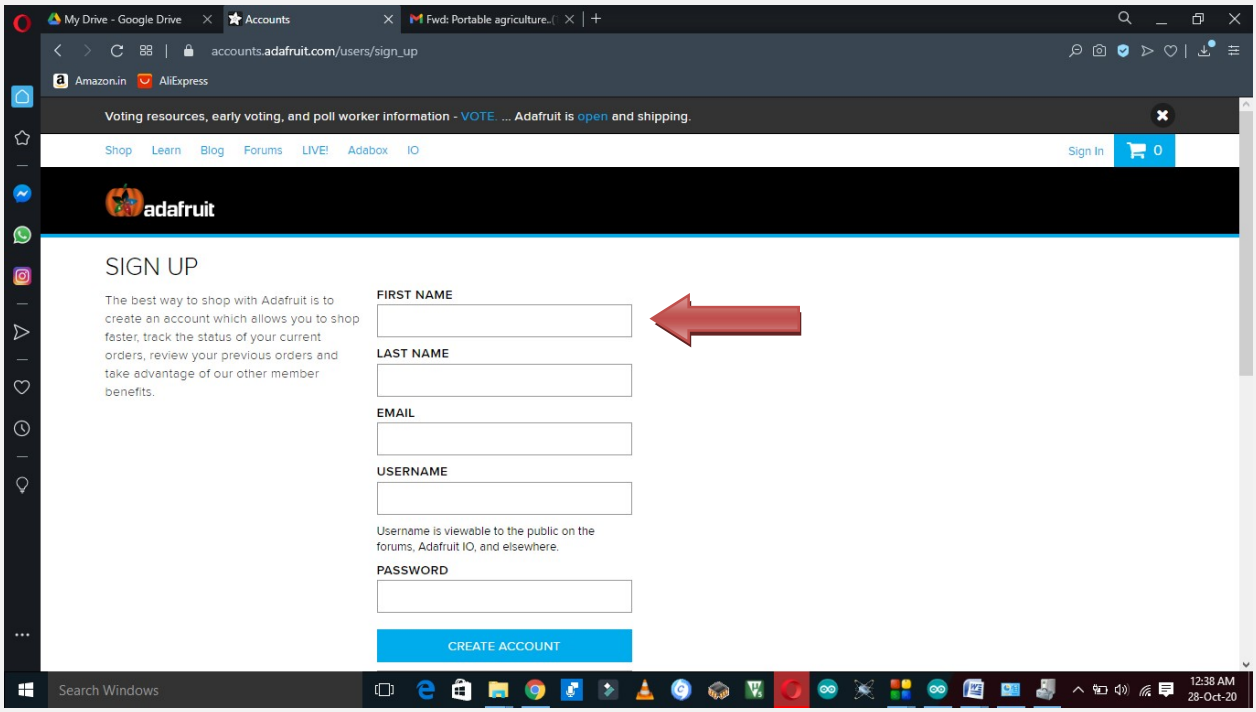

27agriculture | Arduino 1.8.10 Hourly Build 2019/04/18 12:33
File Edit Sketch Tools Help
27agriculture
//1.ADD URL http://arduino.esp8266.com/stable/package_esp8266com_index.json IN PREFRENCES CLICK
//2.CHANGE WIFI NAME & PASSWORD
//3.CHANGE ADAFRUIT USER NAME & AUTH KEY AS PER ADAFRUIT ACCOUNT
//4.BRUN THIS PROGRAM YOUR NODE ESP 32 IN TOOLS: SELECT BOARD NODE MCU 1.0 12E , UPLOAD SPEED 11
#include <ESP8266WiFi.h>
#include <Adafruit_Sensor.h>
#include "Adafruit_MQTT.h"
#include "Adafruit_MQTT_Client.h"
#define S0 D0
#define WLAN_SSID "EFY-IEW2017-02" // ************************Your WIFI NAME
#define WLAN_PASS "24022018" // ****************************Your WIFI password*****
#define AIO_SERVER "io.adafruit.com" //Adafruit Server
#define AIO_SERVERPORT 1883
Done uploading.
Leaving...
Hard resetting via RTS pin...
Complete
13
NodeMCU 1.0 (ESP-12E Module) on COM4
Search Windows
12:14 AM
28-Oct-20

Adafruit IO

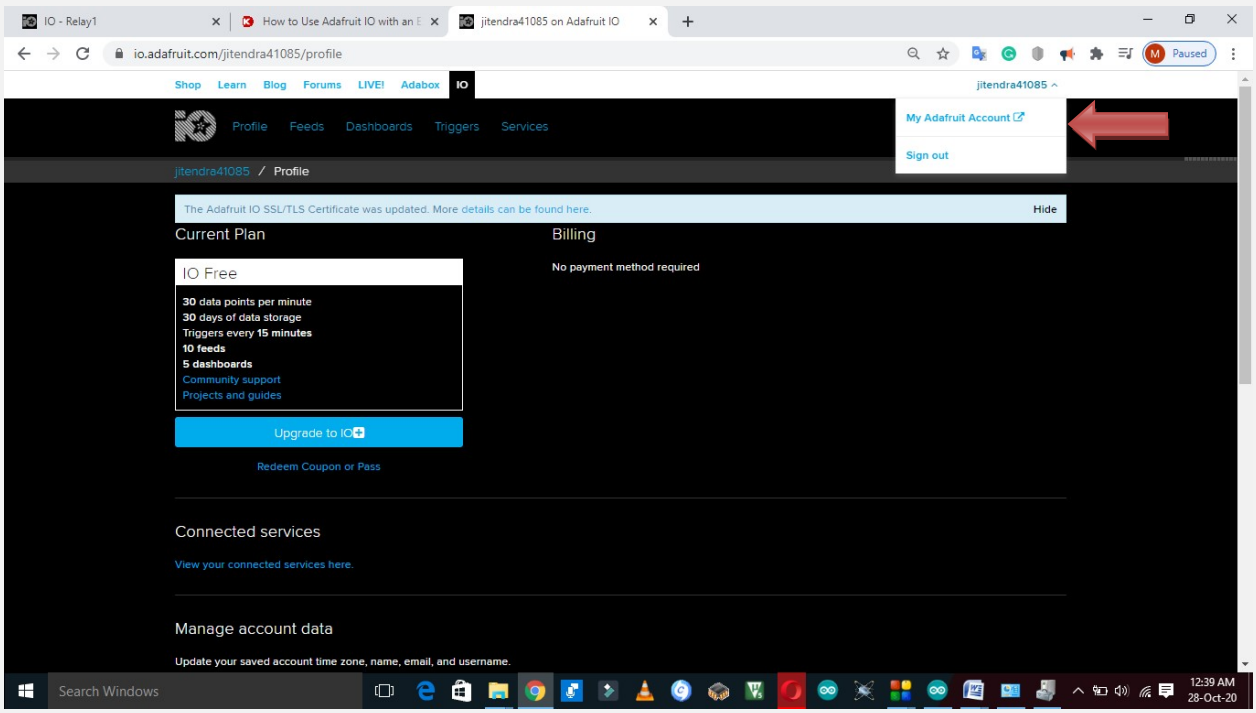
For Interfacing on Cloud Terminal access link->

https://io.adafruit.com/

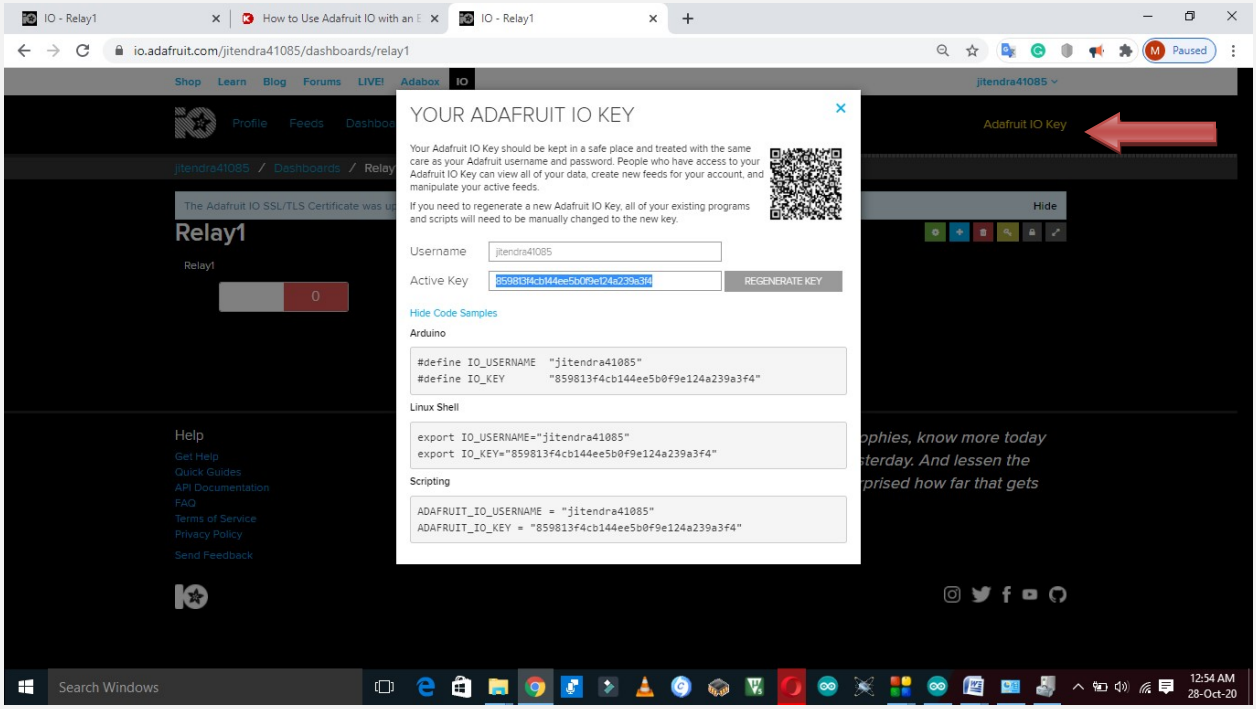
Create Account:



Login in Account through user name and password

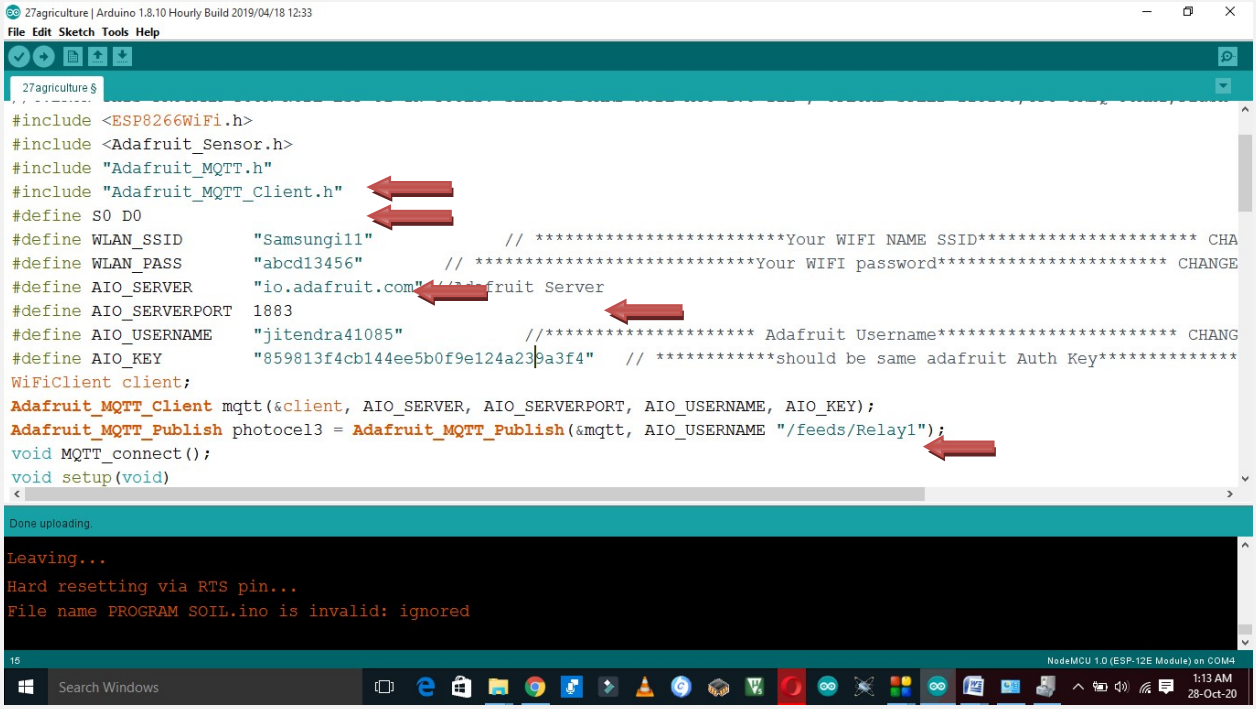


Take User name, and key , which will be required in program

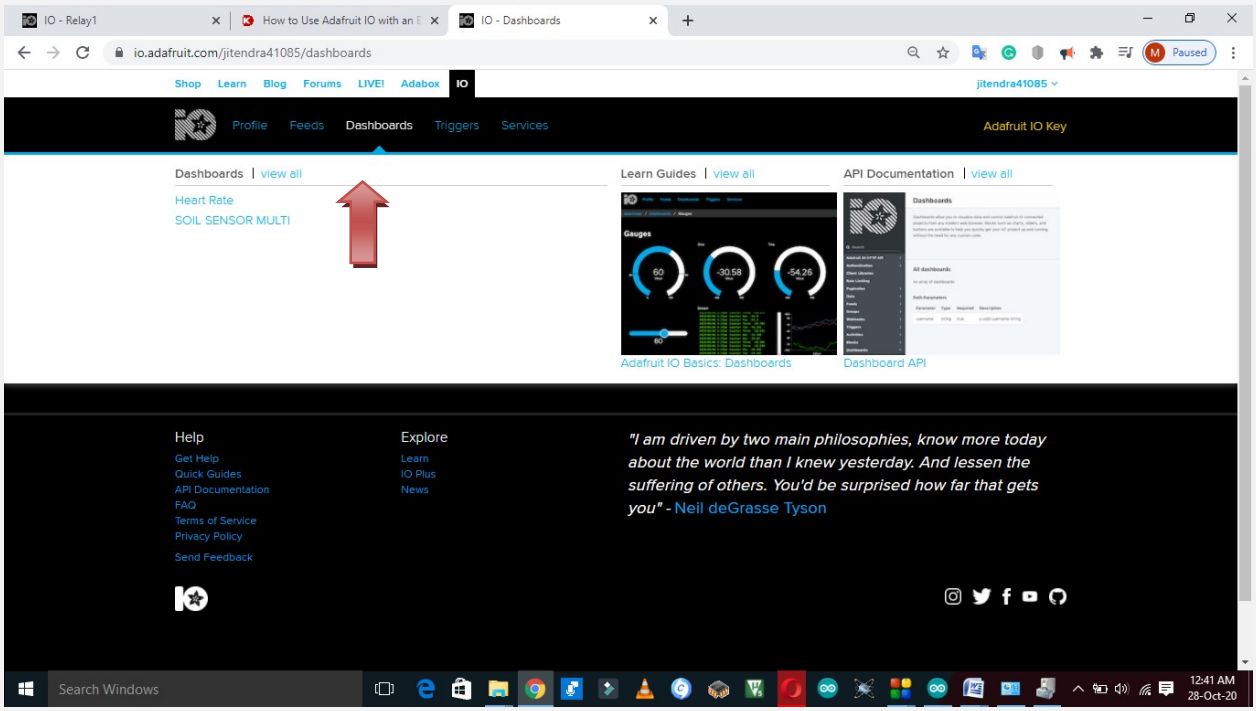


As per Program we required to make feed for live data on portal

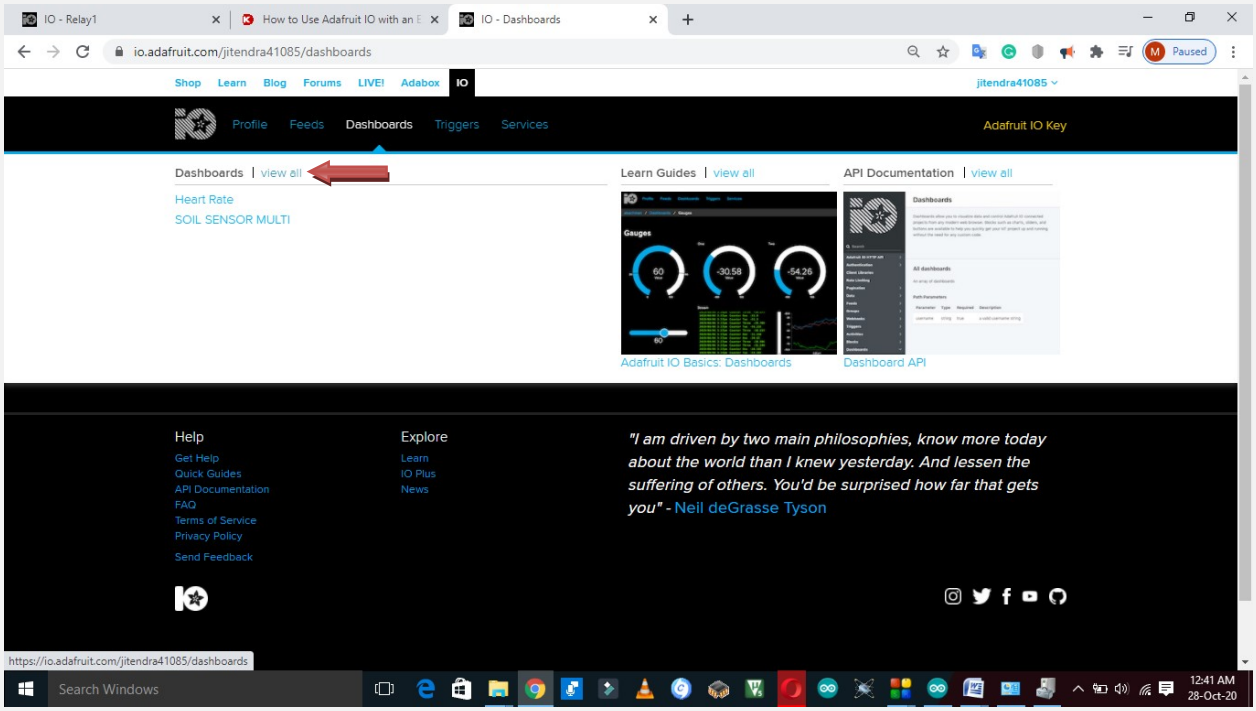
Place Wifi Name, Wifi pswd, Adafruit user name & Auth KEY in prog and feed name (Here we are using Relay1 as feed).



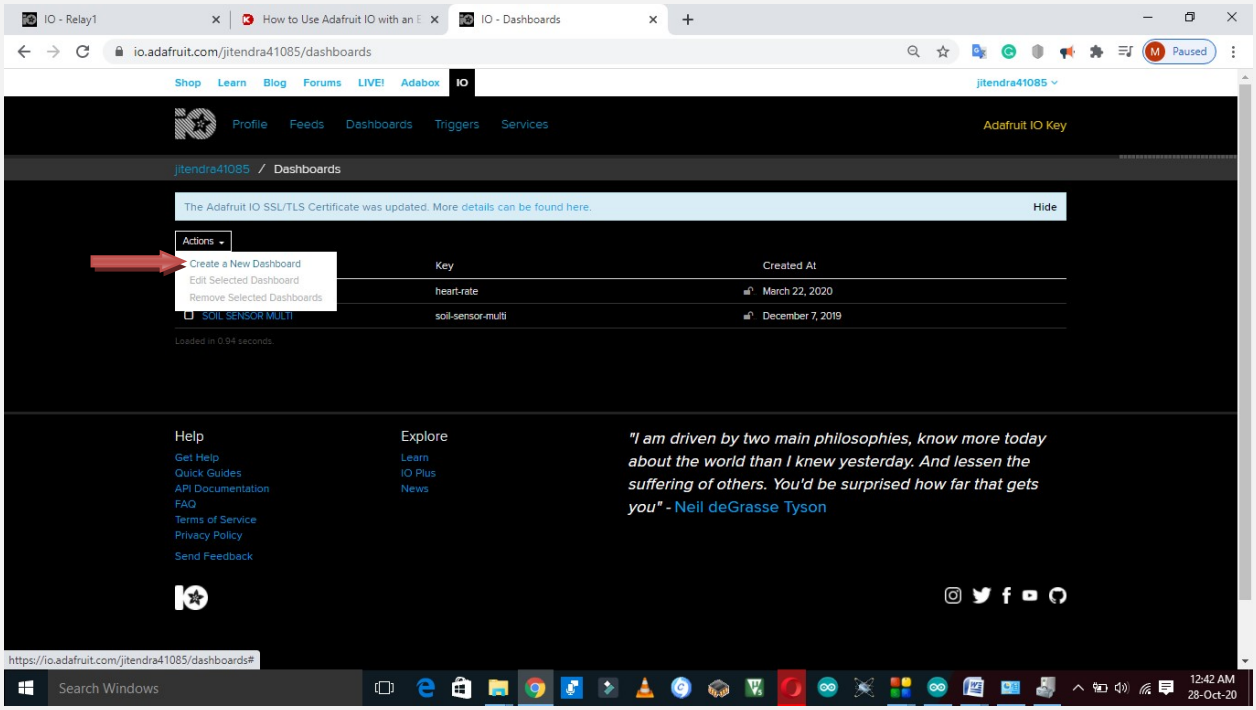
Click on Dash Board



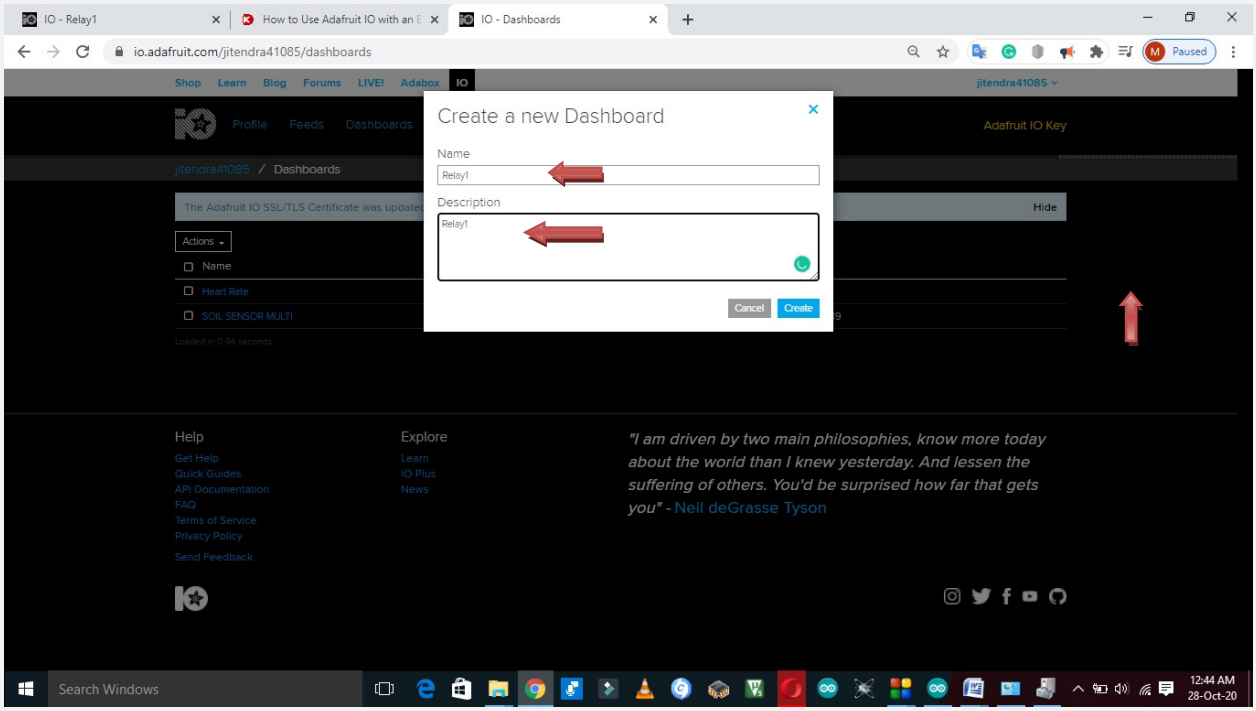
Click on View all



Click on -> action for new dash board

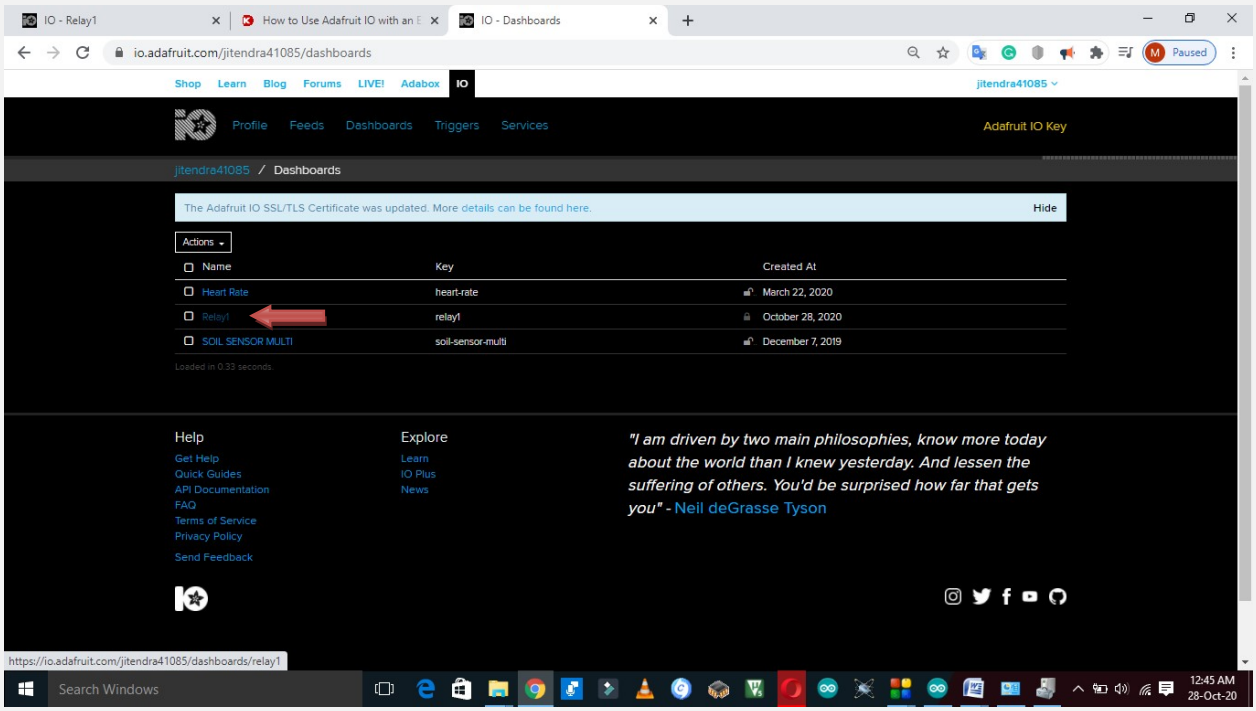


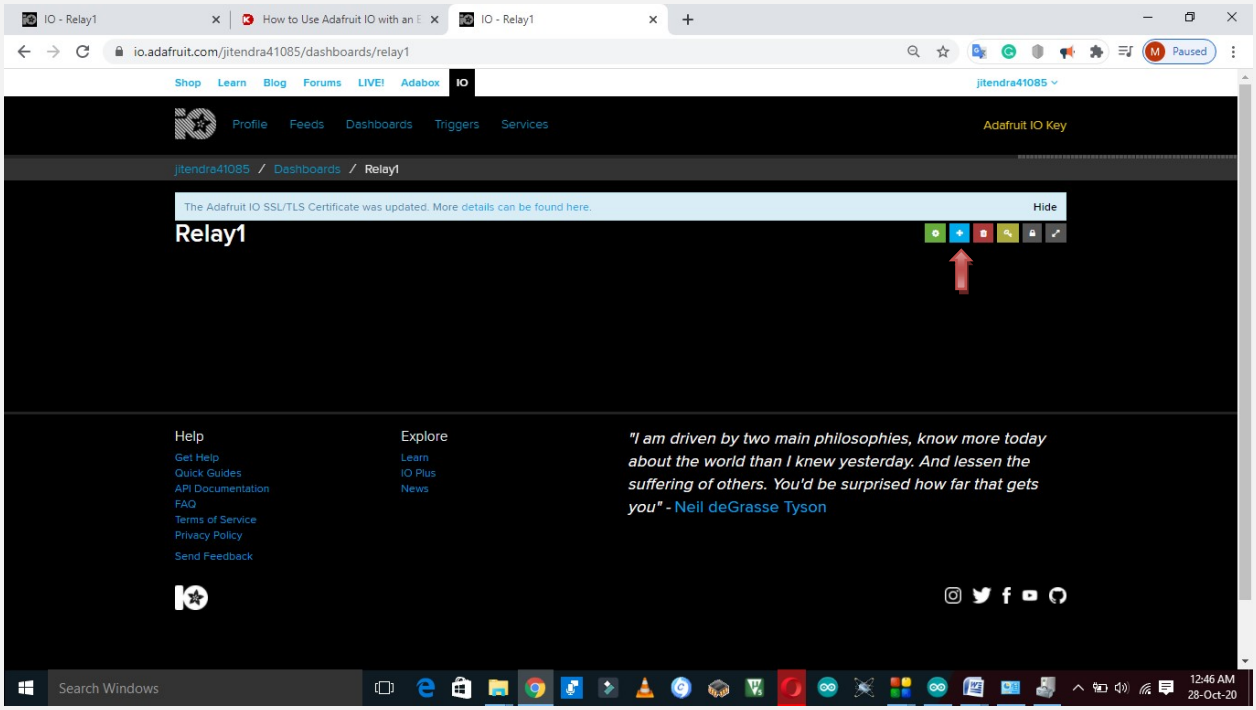
Click on Create dash board and the feed name as mention in program which is Relay1



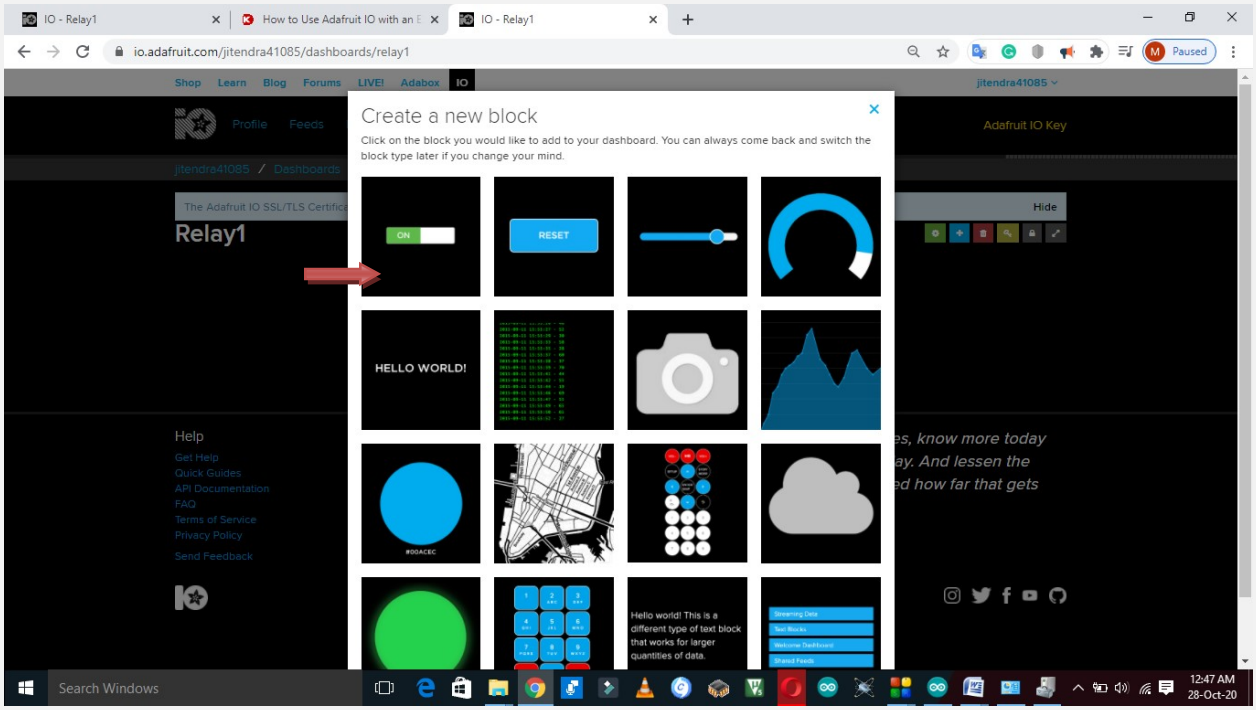
Click on create

Click on Relay1 dashboard Showing as in above picture.

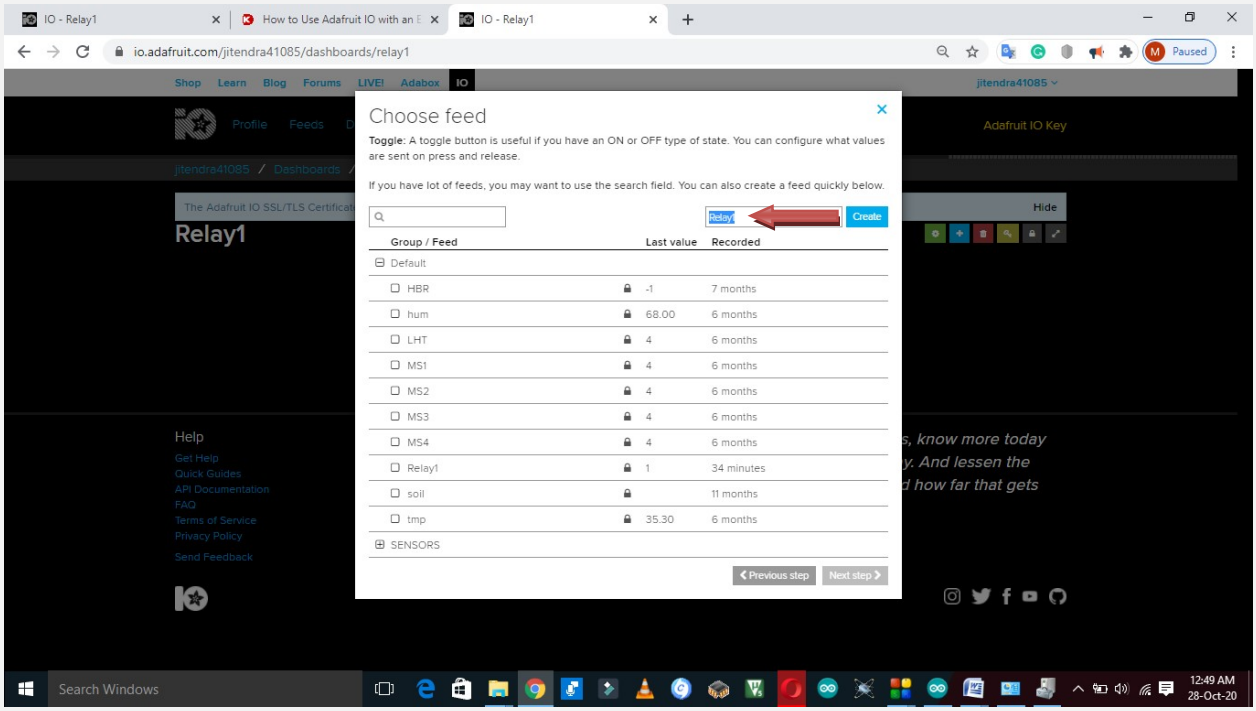




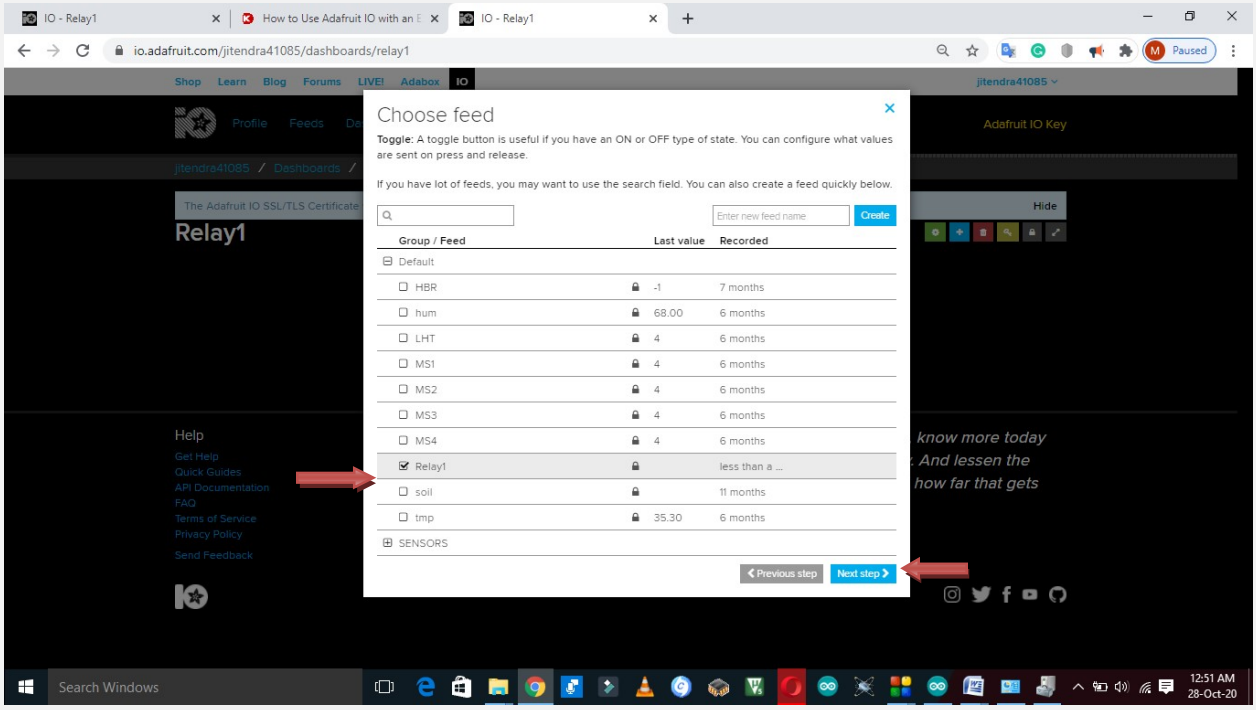
Add feed by click on Plus + Button and Click on slide button in Panel 1st Position



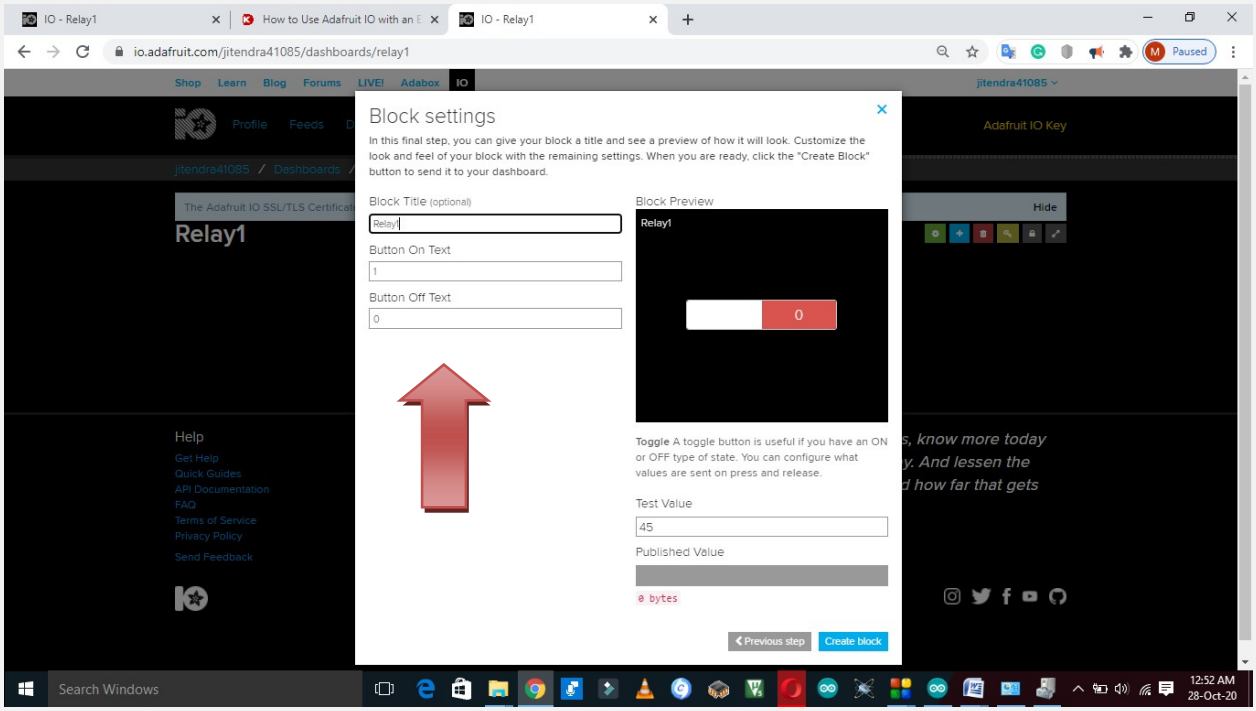
Add name Relay1 and create



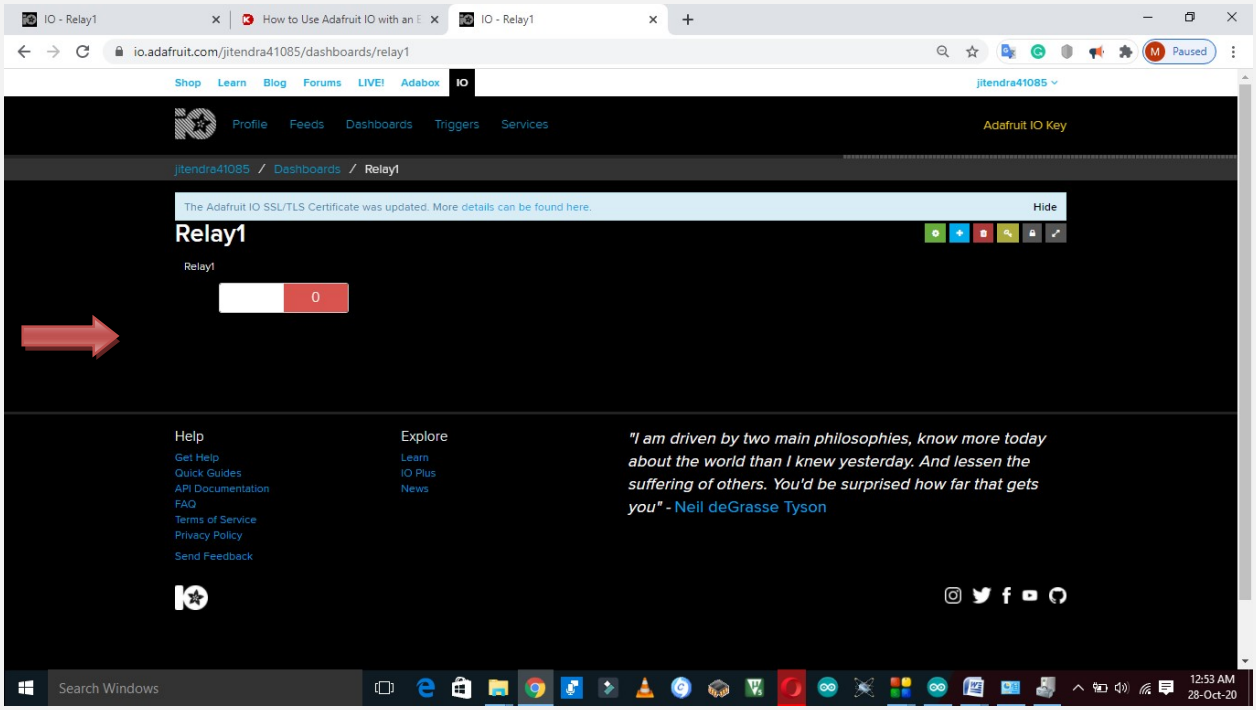
Click on Relay1 feed



Click on Next Button and add 1, 0 or ON or off button text and create block



Final : Status of Relay1 from Feed



We can also see live data from profile by monitor section