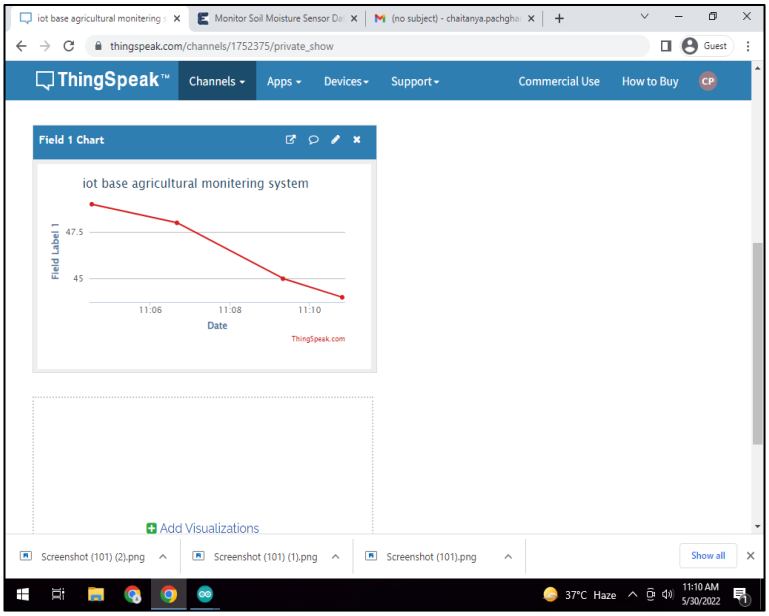

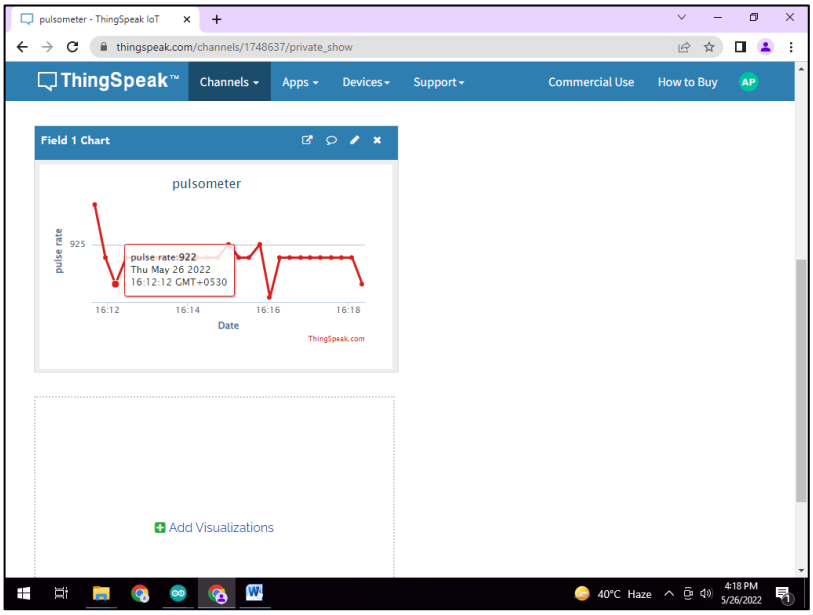

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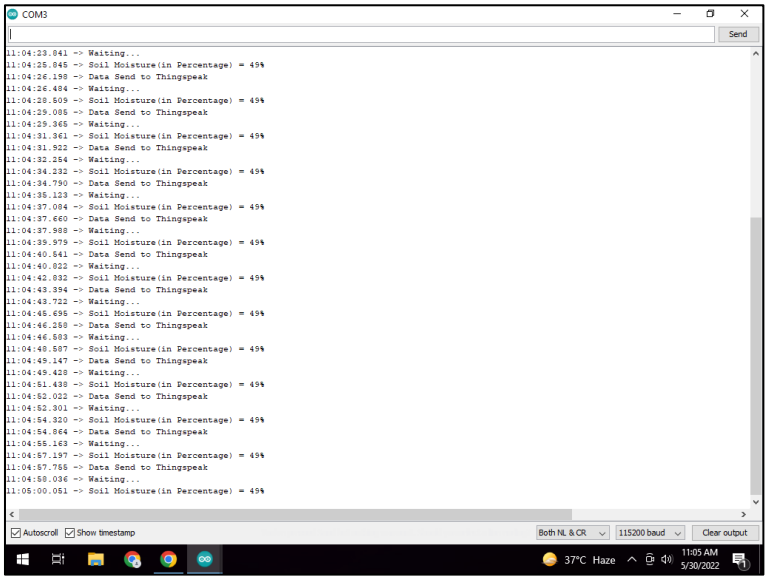

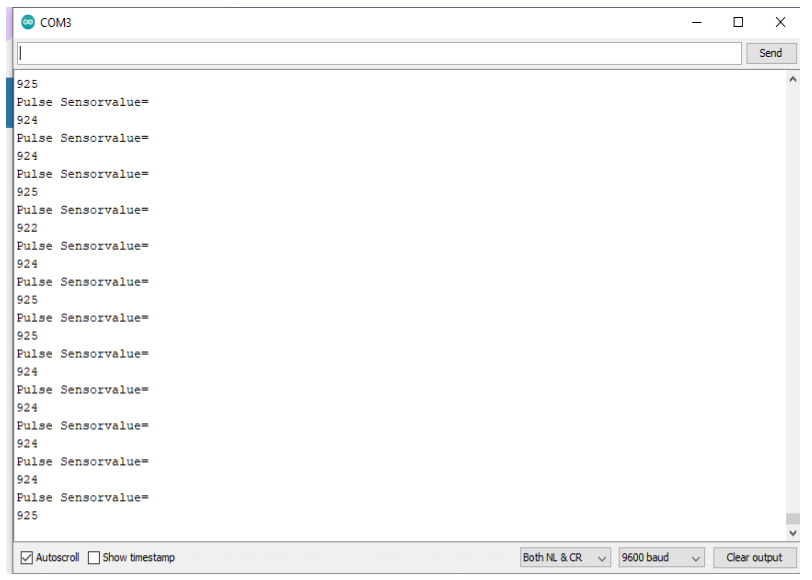

3→

```
#include <ESP8266WiFi.h>;
#include <WiFiClient.h>;
#include <ThingSpeak.h>;

const char* ssid = "MiliFi"; //Your Network SSID
const char* password = "nrlf853799"; //Your Network Password
int val;
int PulseSensorpin = A0; //Pulse Sensor Pin Connected at A0 Pin
WiFiClient client;

unsigned long myChannelNumber = 1748637 ; //Your Channel Number (Without Brackets)
const char * myWriteAPIKey = "IQXB3VH1OYA82TN2"; //Your Write API Key

void setup()
{
 Serial.begin(9600);
 delay(10);
  // Connect to WiFi network
  WiFi.begin(ssid, password);
  ThingSpeak.begin(client);
}

void loop()
{
  val = analogRead(PulseSensorpin); //Read Analog values and Store in val variable
  Serial.println("Pulse Sensorvalue=  "); // Start Printing on Pulse sensor value on LCD
  Serial.println(val); // Start Printing on Pulse sensor value on LCD
 delay(10);
 ThingSpeak.writeField(myChannelNumber, 1,val, myWriteAPIKey); //Update in ThingSpeak
}
```

```
#include <ESP8266WiFi.h>
#include <SPI.h>
#include <Wire.h>
String apiKey = "WH6FJ585QMKPIQ2A"; // Enter your Write API key from ThingSpeak
const char *ssid = "Redmi note 8 pro";     // replace with your wifi ssid and wpa2 key
const char *pass = "12345678";
const char* server = "api.thingspeak.com";
const int sensor_pin = A0;  // Connect Soil moisture analog sensor pin to A0 of NodeMCU
WiFiClient client;
void setup() {
  Serial.begin(115200);
  delay(10);
  Serial.println("Connecting to ");
  Serial.println(ssid);
  WiFi.begin(ssid, pass);
  while (WiFi.status() != WL_CONNECTED)
  {
    delay(500);
    Serial.print(".");
  }
    Serial.println("");
    Serial.println("WiFi connected");
    delay(4000);
}
void loop()
{
  int moisture_percentage;

  moisture_percentage = ( 100.00 - ( (analogRead(sensor_pin)/1023.00) * 100.00 ) );

    Serial.print("Soil Moisture(in Percentage) = ");
    Serial.print(moisture_percentage);
    Serial.println("%");
    if (client.connect(server, 80)) // "184.106.153.149" or api.thingspeak.com
{
    String postStr = apiKey;
    postStr += "&field1=";
    postStr += String(moisture_percentage);
    postStr += "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.println("Data Send to Thingspeak");
 }
    client.stop();
    Serial.println("Waiting...");
    delay(2000);      // thingspeak needs minimum 15 sec delay between updates
}
```

3→