#include <ESP8266WiFi.h> #include <ArduinoJson.h> #include

<SoftwareSerial.h> SoftwareSerial nodemcu(D5, D6);

int data1, data2,data3

,data4;

String apiKey = "YY58VE7RCJDOU2XT"; // Enter your Write API key from ThingSpeak

const char \*ssid = "Gravity Gimbals"; // replace with your wifi ssid and wpa2 key

const char \*pass = "8778222387"; const char\* server = "api.thingspeak.com";

WiFiClient client;

String str;

void setup()

{

nodemcu.begin(115200);

Serial.begin(115200);

// gpsSerial.begin(9600);

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");

}

void loop()

{

StaticJsonBuffer<1000> jsonBuffer; JsonObject& root =

jsonBuffer.parseObject(nodemcu);

if (root == JsonObject::invalid())

{

return;

Serial.println("invalid");

}

data1 = root["a1"]; data2 =

root["a2"];

data3 = root["a3"]; data4 = root["a4"];

delay(1000);

if (client.connect(server,80)) // "184.106.153.149" or

api.thingspeak.com

{

String postStr = apiKey;

postStr

+="&field1=";

String(data2);

postStr += String(data1); postStr +="&field2=";

postStr +=

postStr +="&field3=";

postStr += String(data3);

postStr

+="&field4=";

postStr += String(data4);

//postStr +="&field5=";

//postStr +=

String(latitude);

// postStr +="&field6=";

"\r\n\r\n"; HTTP/1.1\n");

// postStr += String(longitude);

postStr +=

client.print("POST /update client.print("Host:

api.thingspeak.com\n"); close\n"); "+apiKey+"\n");

client.print("Connection: client.print("X-THINGSPEAKAPIKEY: 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("t: ");

Serial.print(data1);

Serial.print(" h: ");

Serial.print(data2);

//Serial.print("gas");

//Serial.print(data3);

//Serial.print("dis");

//

Serial.print(data4);

//Serial.print("lat");

// Serial.print(latitude);

//

Serial.print("lon");

// Serial.print(longitude);

//Serial.print("lat");

Serial.println(" Send to Thingspeak.");

}

client.stop();

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

// thingspeak

needs minimum 15 sec delay between updates delay(1000);

}