IOT MINOR PROJECT

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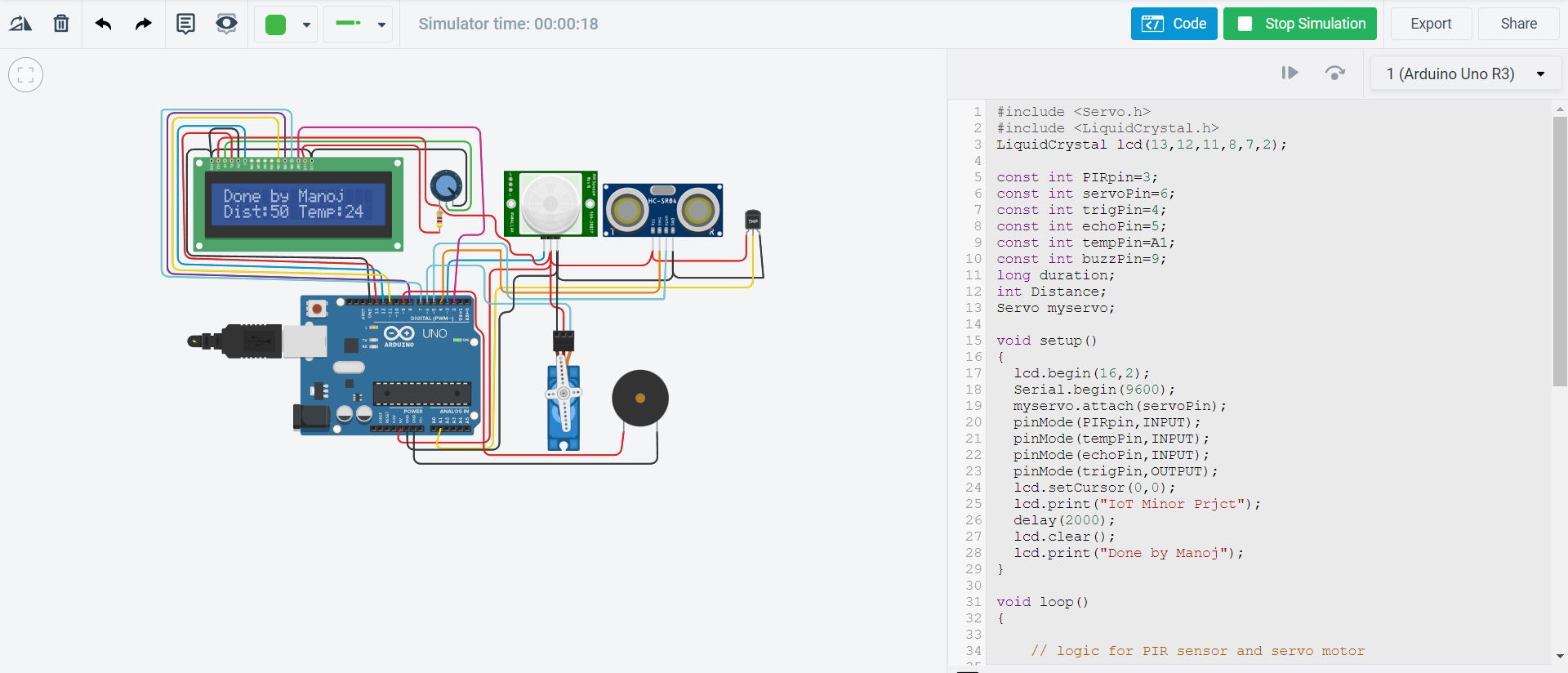
EMAIL: [mendemanojyadav555@gmail.com](mailto:mendemanojyadav555@gmail.com)

Project Descripation :

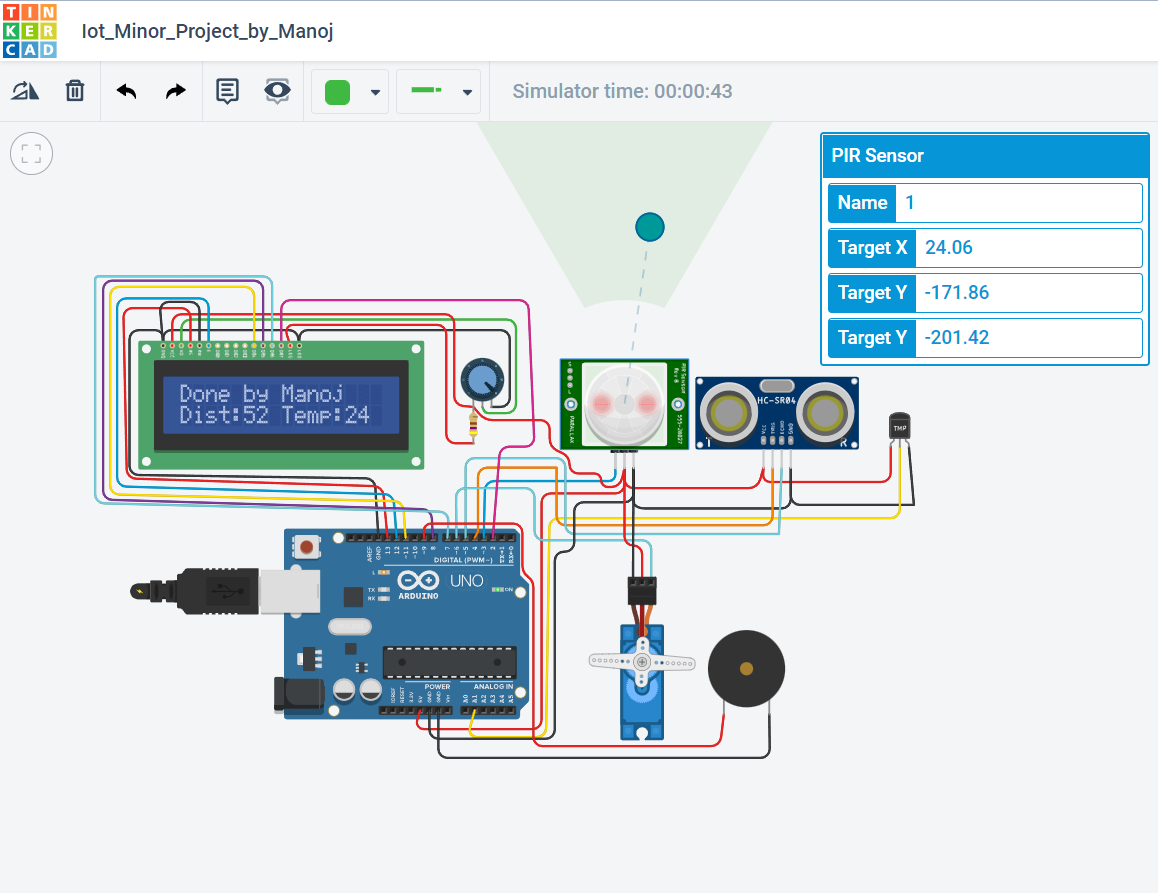
* Tinkercad: Design a system using 3 sensors ,it can perform any task as per your choice. Submit results taking screenshots and attaching it in mail.
* Thingspeak: Design a dashboard with 3 sensors, create a react for it using thinghttp. Make the channel public.
* Thinghttp – Find the IPL score .

Task 1

Circuit digaram



Dist indicates the distance detected by the ultrasonic sensor and temp indicates the temperature.

When PIR sensor detects human motion , servo rotates 90 degrees.

Program code : #include <Servo.h>

#include <LiquidCrystal.h>

LiquidCrystal lcd(13,12,11,8,7,2);

const int PIRpin=3;

const int servoPin=6;

const int trigPin=4;

const int echoPin=5;

const int tempPin=A1;

const int buzzPin=9;

long duration;

int Distance;

Servo myservo;

void setup()

{

lcd.begin(16,2);

Serial.begin(9600);

myservo.attach(servoPin);

pinMode(PIRpin,INPUT);

pinMode(tempPin,INPUT);

pinMode(echoPin,INPUT);

pinMode(trigPin,OUTPUT);

lcd.setCursor(0,0);

lcd.print("IoT Minor Prjct");

delay(2000);

lcd.clear();

lcd.print("Done by Manoj");

}

void loop()

{

// logic for PIR sensor and servo motor

int PIRstatus=digitalRead(PIRpin);

if (PIRstatus==1)

{

myservo.write(90);

}

else

myservo.write(0);

// logic for ultrasonic sensor

digitalWrite(trigPin,LOW);

digitalWrite(trigPin,HIGH);

delayMicroseconds(10);

digitalWrite(trigPin,LOW);

duration=pulseIn(echoPin,HIGH);

Distance=(duration\*0.0340)/2;

lcd.setCursor(0,1);

lcd.print("Dist:");

lcd.print(Distance);

// logic for Temperature sensor

int x = analogRead(tempPin);

float volt = (5.0\*x)/1023;

int temp=(volt\*1000-500)/10;

lcd.setCursor(8,1);

lcd.print("Temp:");

lcd.print(temp);

if(temp>=50)

digitalWrite(buzzPin,HIGH);

else

digitalWrite(buzzPin,LOW);

}

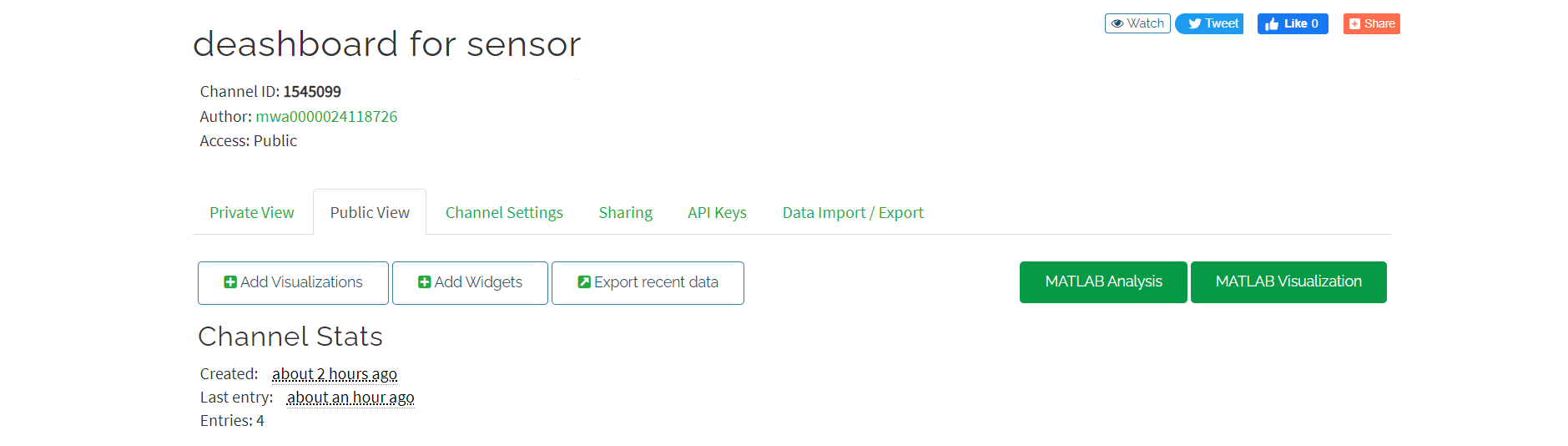
Tinkercad simulation link :

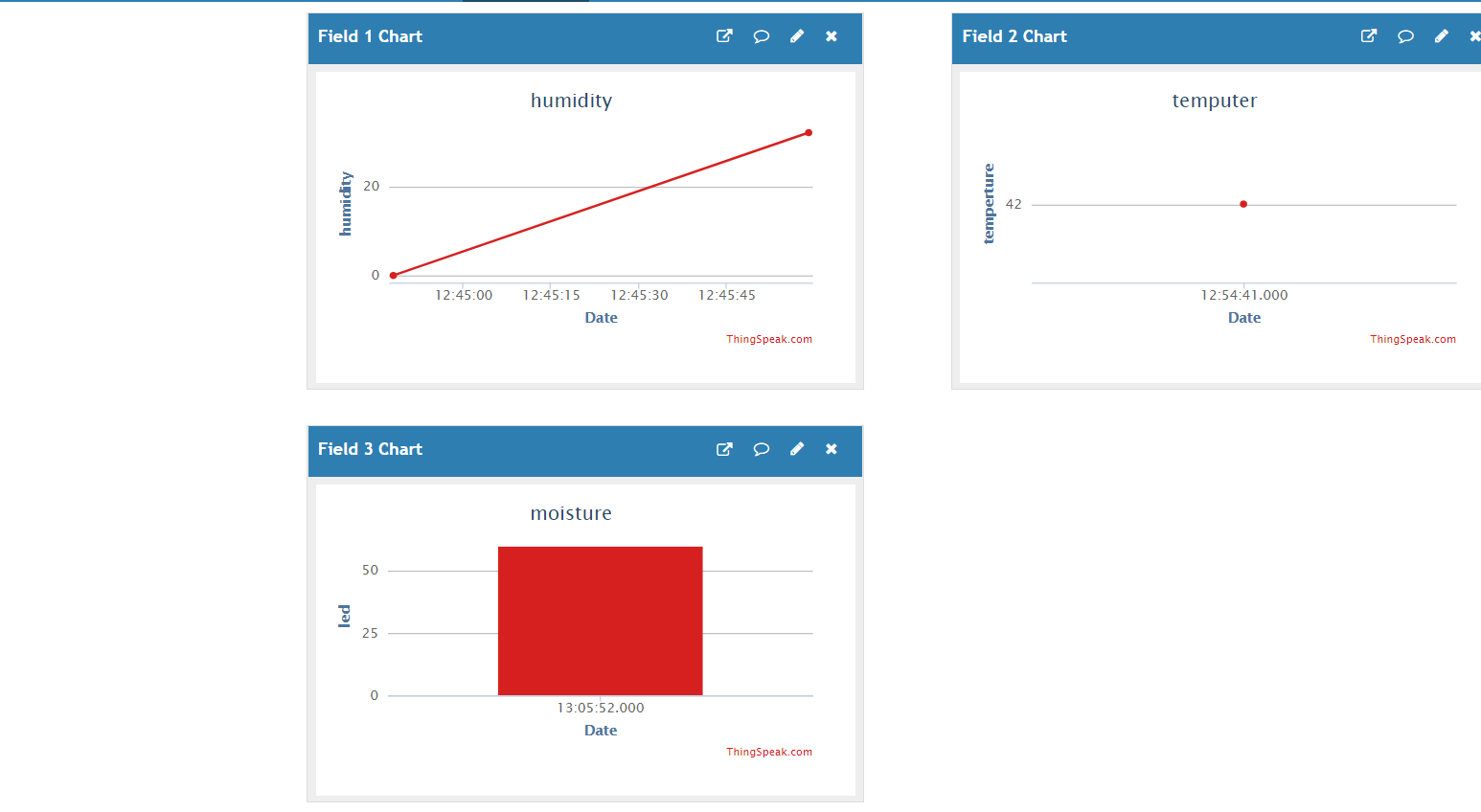
<https://www.tinkercad.com/things/dCTtXAJSWpf-iotminorprojectbymanoj/editel?sharecode=TXtCP39EI9v2rfqVBwuqwsFRY_AH8NWTuPHURqbRlIw>

Task 2

Thinkspeak link :

https://thingspeak.com/channels/1545099

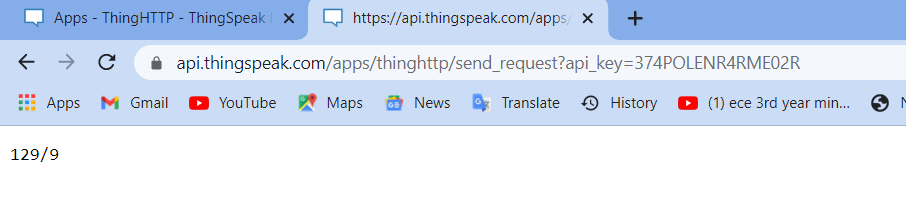


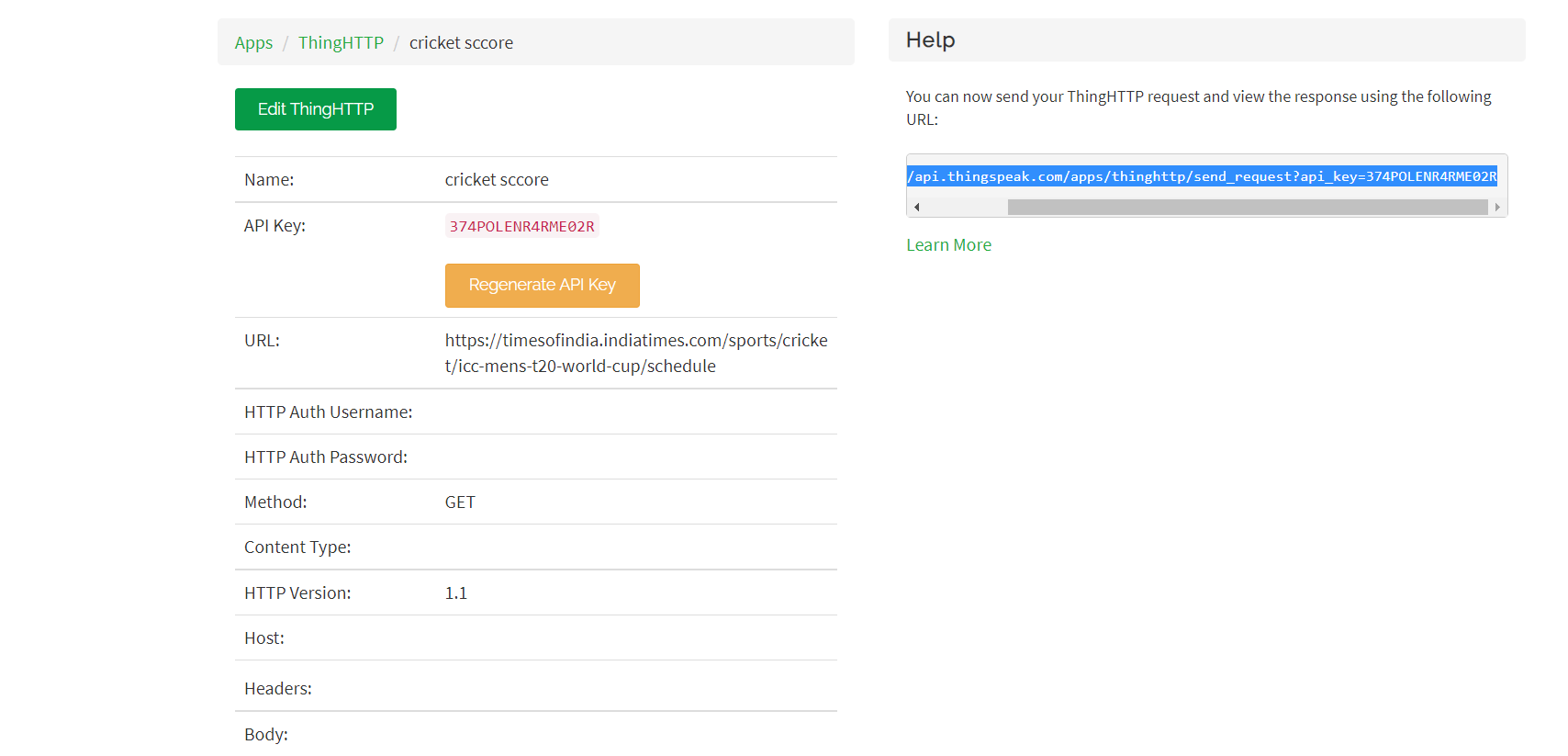


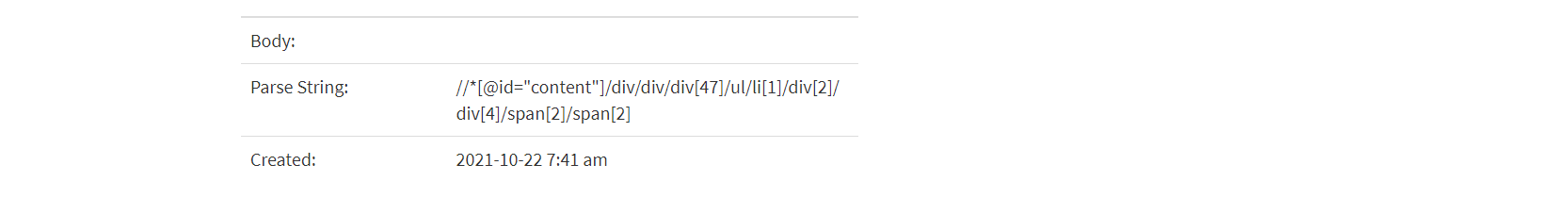
Task 3

ThinkHTTP :

<https://api.thingspeak.com/apps/thinghttp/send_request?api_key=374POLENR4RME02R>







Thank you