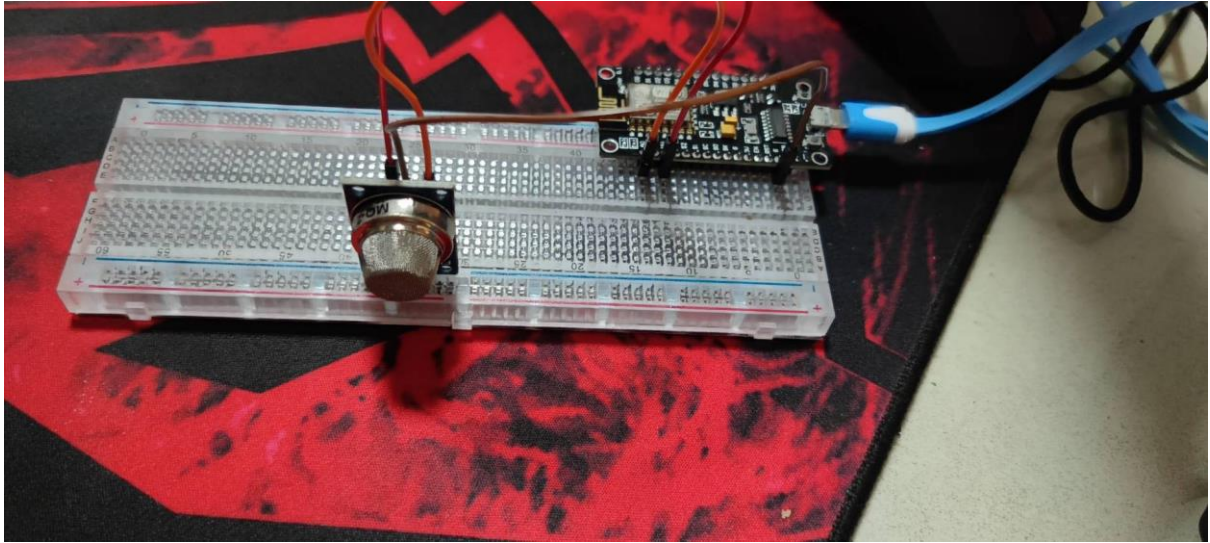


การต่อวงจร



Source Code

```
void setup()
{
    Serial.begin(9600);
}
void loop()
{
    float sensor_volt, sensorValue;
    float rs, r0; // y = rs/r0
    /*--- Get a average data by testing 100 times ---*/
    for (int x = 0; x < 100; x++)
    {
        sensorValue = sensorValue + analogRead(A0);
    }
    sensorValue = sensorValue / 100.0;
    /*-----*/
    sensor_volt = (sensorValue * 5.0 ) / 1023;
    rs = (5.0 - sensor_volt) / sensor_volt;
    r0 = rs / 9.8;
    Serial.print("sensor_volt = ");
    Serial.print(sensor_volt);
    Serial.println("V");
    Serial.print("r0 = ");
    Serial.println(r0);
    delay(1000);
}
```

```

#include <TridentTD_LineNotify.h>
const int analogInPin = A0;
int sensorValue = 0;
int outputValue = 0;
float ppm_gas;

#define SSID "gampanart"
#define PASSWORD "033081559"
#define LINE_TOKEN "As7uw3yXUB5bBYQizErvGRGchtIKY3IdyJjxs8I0pg9"

void gas() {
    float sensor_volt;
    float RS_gas; // Get value of RS in a GAS
    float ratio; // Get ratio RS_GAS/RS_air
    int sensorValue = analogRead(A0);
    sensor_volt = (float)sensorValue / 1023 * 5.0;
    RS_gas = (5.0 - sensor_volt) / sensor_volt; // omit *RL
    /*-Replace the name "R0" with the value of R0 in the demo of First Test -*/
    ratio = RS_gas / 0.17;
    /*-----*/
    Serial.print("sensor_volt = ");
    Serial.println(sensor_volt);
    Serial.print("RS_ratio = ");
    Serial.println(RS_gas);
    Serial.print("Rs/R0 = ");
    Serial.println(ratio);
    float ppm_gas_log;
    ppm_gas_log = (log(ratio) - 1.349) / (-0.372);
    ppm_gas = pow(10.0, ppm_gas_log);
    Serial.print("ppm_gas = ");
    Serial.println(ppm_gas);
    delay(1000);
}

void setup()
{
    Serial.begin(115200);
    WiFi.begin(SSID, PASSWORD);
    while (WiFi.status() != WL_CONNECTED)
    {
        delay(1000);
        Serial.print(".");
    }
    Serial.println("");
    Serial.println("WiFi connected");
    LINE.setToken(LINE_TOKEN);
}

void loop()
{
    gas();
    if (ppm_gas >= 100)
    {
        LINE.notify("แจ้งเตือน : ตรวจพบ gas ที่อาจก่อให้เกิดไฟไหม้ !!!");
        delay(500);
    }
}

```