1. Buat Google Sheet
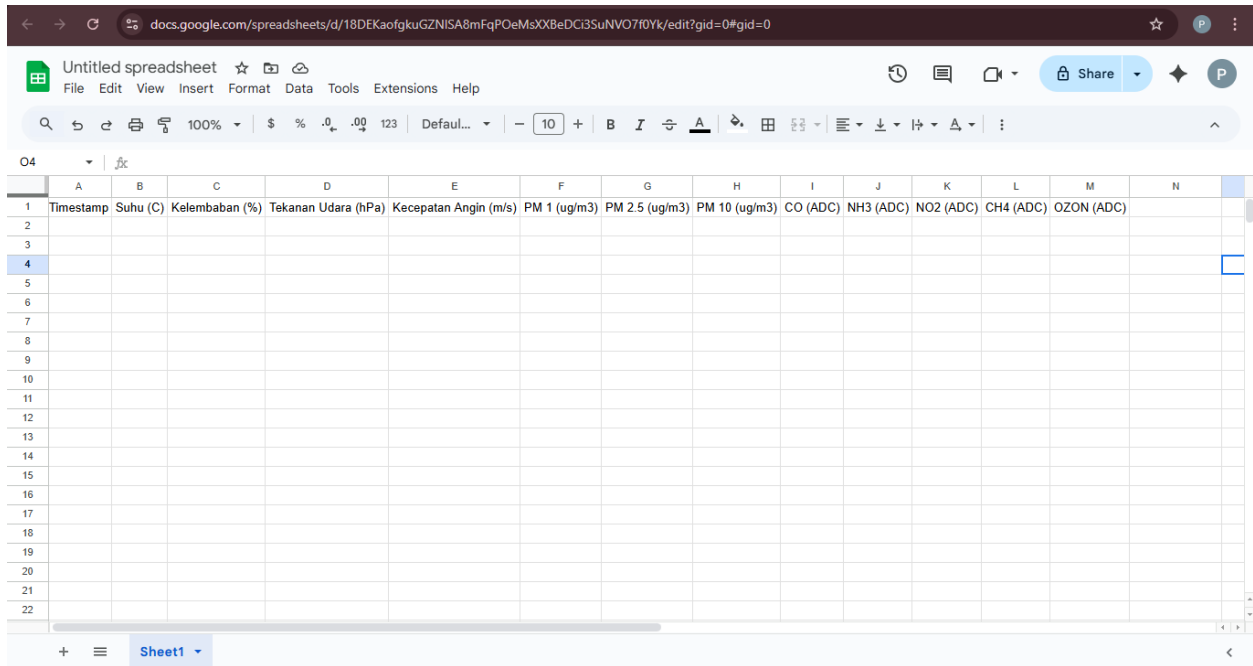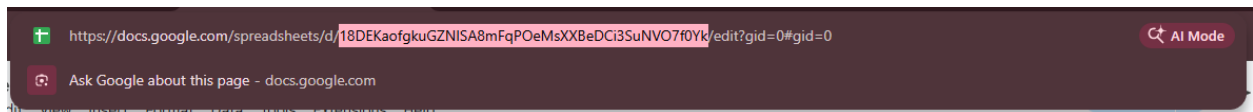

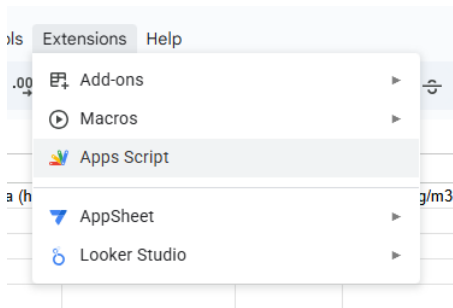# 2. Isi kolom :

Timestamp   Suhu (°C)   Kelembaban (%)   Tekanan Udara (hPa) Kecepatan Angin (m/s)   PM 1 ($\mu g/m^3$)   PM 2.5 ($\mu g/m^3$)   PM 10 ($\mu g/m^3$)CO (ADC)   NH3 (ADC)   NO2 (ADC) CH4 (ADC)   OZON (ADC)
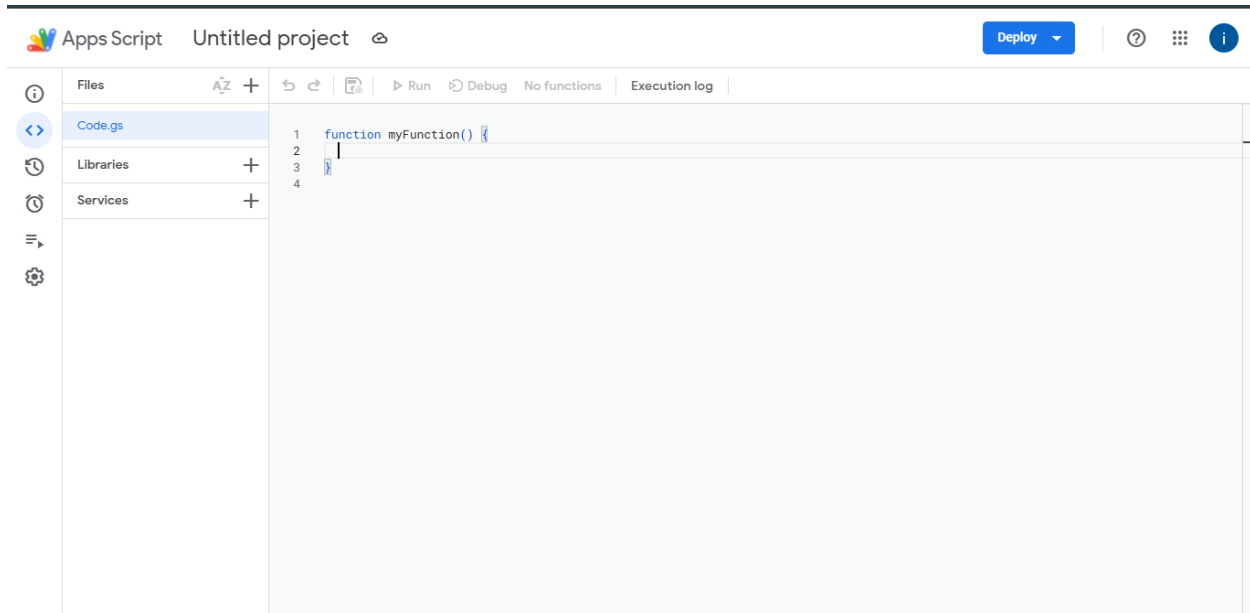
3. Salin ID gsheet

4. Extentions – Apps Script

5. Salin code dari file "gsheet.gs"

6. Isi variable ss sama id gsheet dari langkah 3
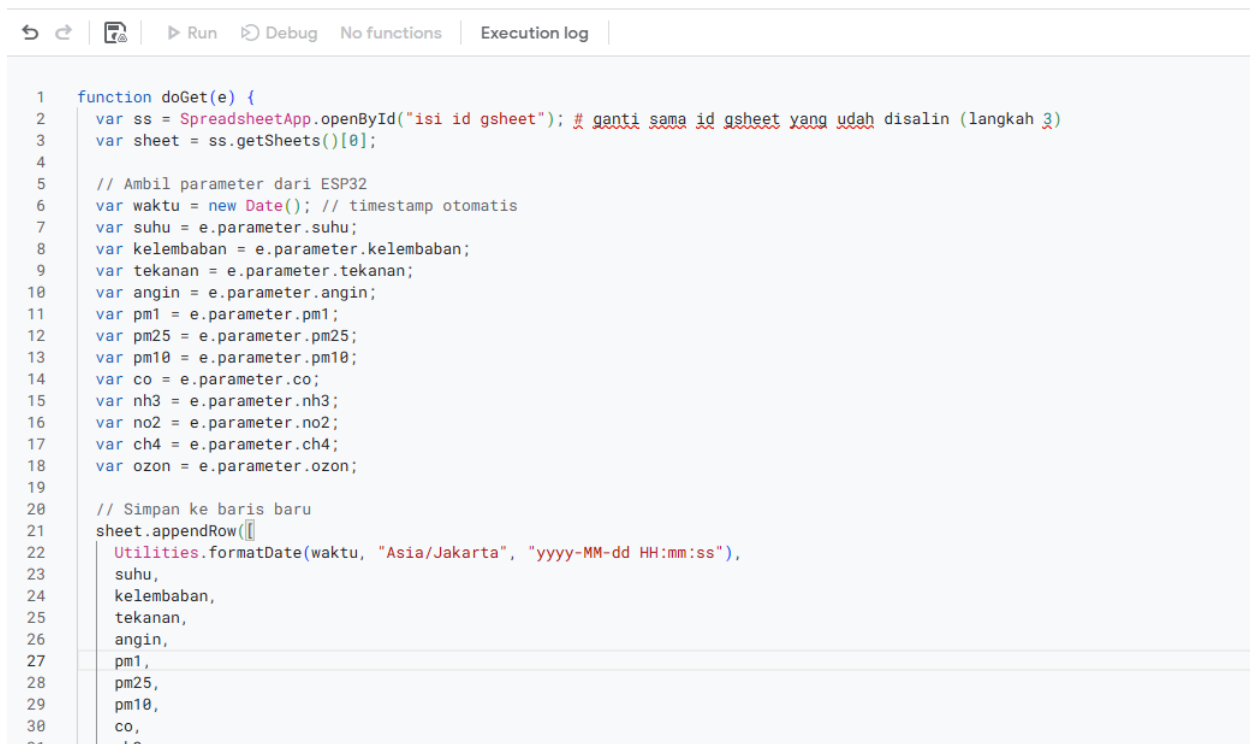
```
1   function doGet(e) {
2     var ss = SpreadsheetApp.openById("isi id gsheet"); # ganti sama id gsheet yang udah disalin (langkah 3)
3     var sheet = ss.getSheets()[0];
4
5     // Ambil parameter dari ESP32
6     var waktu = new Date(); // timestamp otomatis
7     var suhu = e.parameter.suhu;
8     var kelembaban = e.parameter.kelembaban;
9     var tekanan = e.parameter.tekanan;
10    var angin = e.parameter.angin;
11    var pm1 = e.parameter.pm1;
12    var pm25 = e.parameter.pm25;
13    var pm10 = e.parameter.pm10;
14    var co = e.parameter.co;
15    var nh3 = e.parameter.nh3;
16    var no2 = e.parameter.no2;
17    var ch4 = e.parameter.ch4;
18    var ozon = e.parameter.ozon;
19
20    // Simpan ke baris baru
21    sheet.appendRow([
22      Utilities.formatDate(waktu, "Asia/Jakarta", "yyyy-MM-dd HH:mm:ss"),
23      suhu,
24      kelembaban,
25      tekanan,
26      angin,
27      pm1,
28      pm25,
29      pm10,
30      co,
31      nh3
```

7. ikutin langkah gambar
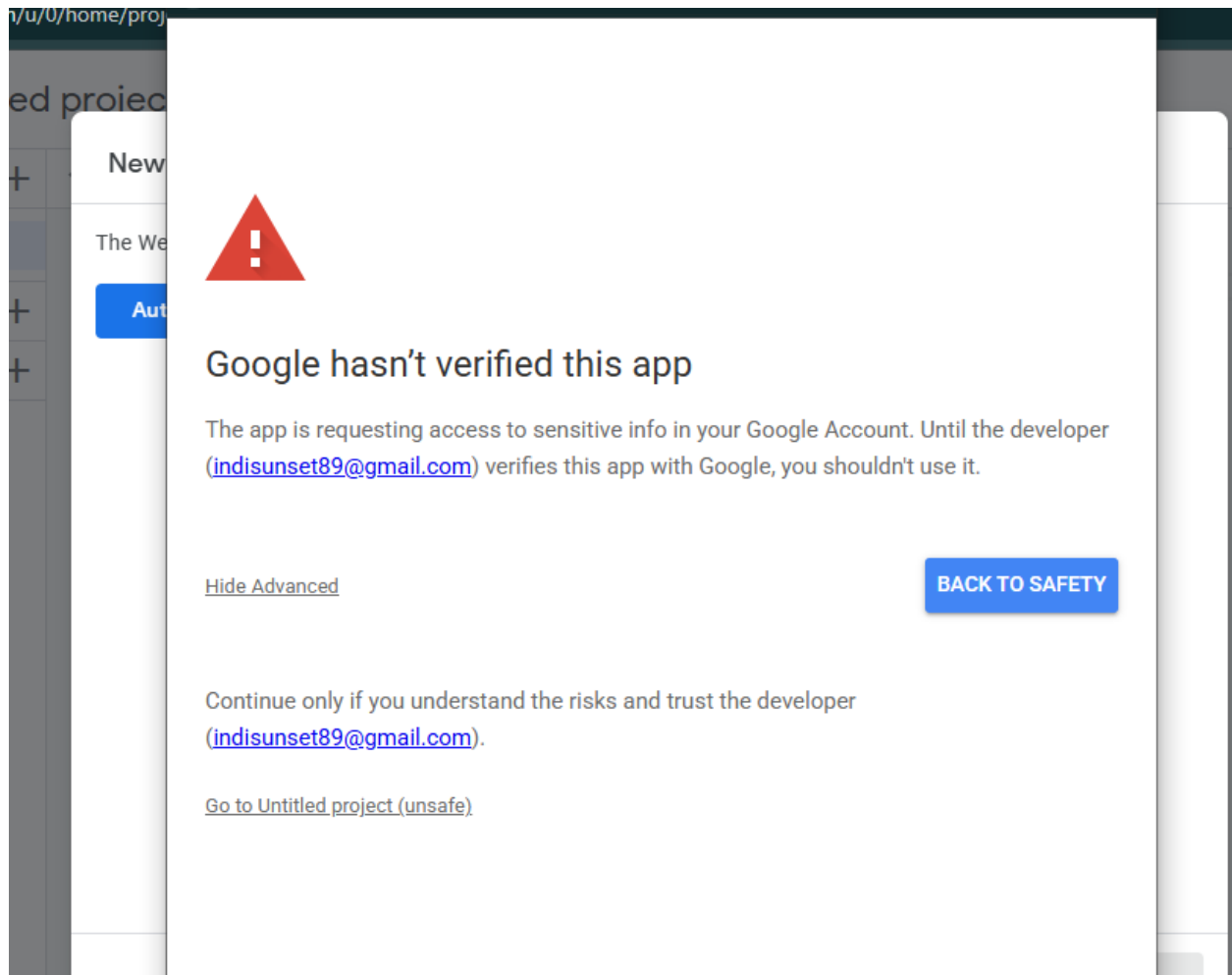
New deployment

The Web App requires you to authorize access to your data.

Authorize access

---

n/u/0/home/proj

ed projec

New

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+

⚠️

Google hasn't verified this app

The app is requesting access to sensitive info in your Google Account. Until the developer (indisunset89@gmail.com) verifies this app with Google, you shouldn't use it.

Hide Advanced

BACK TO SAFETY

Continue only if you understand the risks and trust the developer (indisunset89@gmail.com).

Go to Untitled project (unsafe)

home/proj

proje

New

The We

Aut

Otherwise, some of this app's access to your data may be lost.

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Cancel   Continue

English (United States) ▾   Help   Privacy   Terms

29
30
31   nh3

8. copy web app url (yang bawah) taro ke code esp32

New deployment

Deployment successfully updated.

Version 1 on Jan 16, 2026, 1:38 AM

Deployment ID

AKfycbziD8VHUHN9x4usEMF8IJX_WDQmGYmCVdwgog5ceKw20WzTyR7MyBRyOl_7s6vhp4B8qQ

⧉ Copy

Web app

URL

https://script.google.com/macros/s/AKfycbziD8VHUHN9x4usEMF8IJX_WDQmGYmCVdwgog5ceKw20WzTyR7MyBRyOl_...

⧉ Copy

Done