

### 📌 How to Use Perpetual Google Apps Script to Log Data into a Monthly Google Sheet --  
post created by ChatGPT

This script automatically logs data into a Google Sheet, creating a new sheet each month and appending rows with each web request. It's perfect for projects like temperature monitoring or time tracking using ESP32, Arduino, or any device that can send HTTP GET requests.

### ✅ What This Script Does

- Receives HTTP GET requests (via doGet)
- Appends data to a Google Sheet
- Automatically creates a new sheet each month with headers
- Outputs data to the web response
- Logs everything in the console for debugging

### 🛠️ Setup Steps

1. Copy the Script

- Open Google Apps Script (<https://script.google.com>)
- Create a new project and paste the code into Code.gs

2. Get Your Sheet ID

- Open your Google Sheet
- Copy the ID from the URL:

`https://docs.google.com/spreadsheets/d/ YOUR\_SHEET\_ID\_HERE /edit`

- Replace the value in the script:

```
const sheet_id = "YOUR_SHEET_ID_HERE";
```

### 3. Customize Headers

- Match this array to your expected data fields:

```
const headers = ['lastUpdate', 'outsideTemp', 'insideTemp', 'registerTemp',  
'extraThermoTemp', 'elapsedMinutes', 'dailyTotalMinutes'];
```

### 4. Map Incoming Parameters (Optional)

- Update these variables to match your GET request names:

```
var lastUpdate = e.parameter.lastUpdate || "N/A";
```

```
var outsideTemp = e.parameter.outsideTemp ? parseFloat(e.parameter.outsideTemp) : NaN;
```


### 5. Deploy the Script

- Go to Deploy > Manage deployments
- Select Web app
- Set “Execute as”: Me
- Set “Who has access”: Anyone
- Click Deploy and copy the URL

### 6. Test With a Sample URL

Send a test request like this:

```
https://script.google.com/macros/s/YOUR_DEPLOYMENT_ID/exec?lastUpdate=2025-04-  
13T10:30&outsideTemp=64.2&insideTemp=70.1&registerTemp=68.5&extraThermoTemp=69.0&  
elapsedMinutes=5&dailyTotalMinutes=75
```

###  Debugging Tip

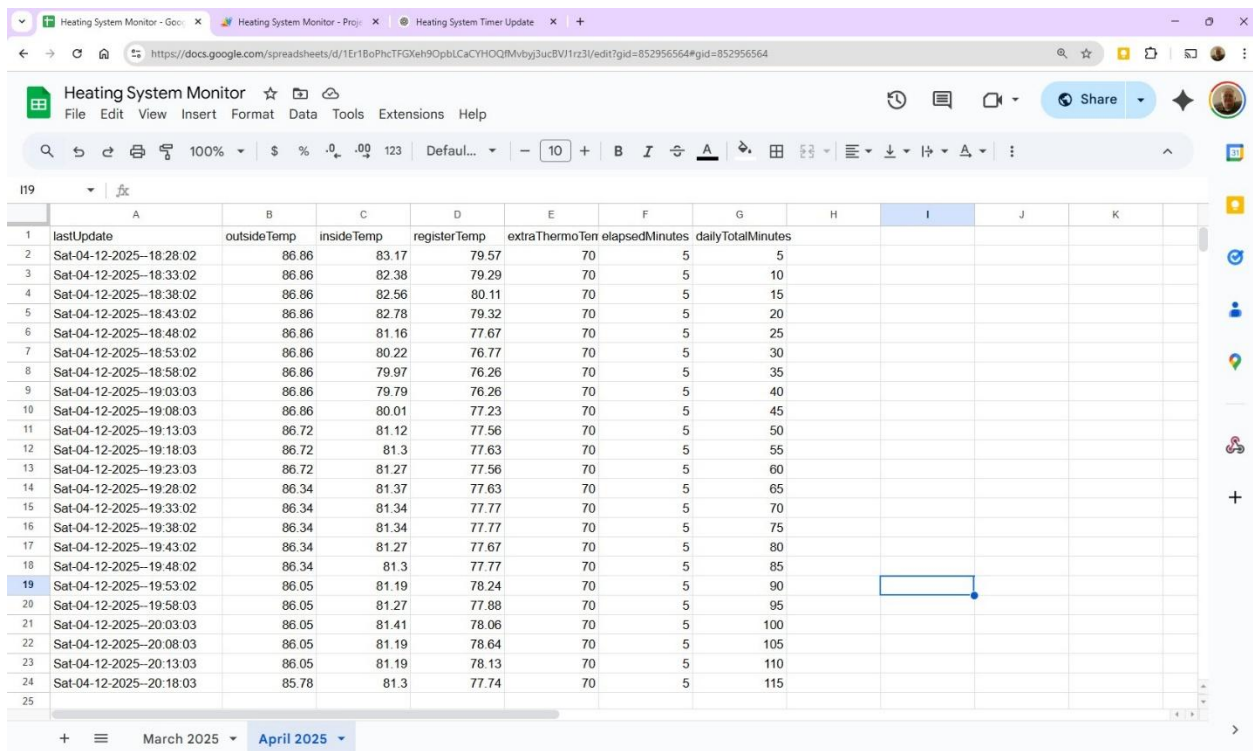
Check what’s being logged in the Apps Script execution logs:

```
console.log(lastUpdate, outsideTemp, insideTemp, registerTemp, extraThermoTemp,
elapsedMinutes, dailyTotalMinutes);
```

### ### 📅 Monthly Sheet Creation

The script checks for the last day of the month:

- If it is the last day, it creates a new sheet for the next month with headers.
- Otherwise, it appends to the current month's sheet.



The screenshot shows a Google Sheets spreadsheet titled "Heating System Monitor". The spreadsheet contains a table with the following columns: lastUpdate, outsideTemp, insideTemp, registerTemp, extraThermoTen, elapsedMinutes, and dailyTotalMinutes. The data is organized by date, starting from Sat-04-12-2025-18:28:02 and ending at Sat-04-12-2025-20:18:03. The bottom of the spreadsheet shows a tab for "April 2025" selected, indicating the script is preparing for the next month's data.

	A	B	C	D	E	F	G	H	I	J	K
1	lastUpdate	outsideTemp	insideTemp	registerTemp	extraThermoTen	elapsedMinutes	dailyTotalMinutes				
2	Sat-04-12-2025-18:28:02	86.86	83.17	79.57	70	5	5				
3	Sat-04-12-2025-18:33:02	86.86	82.38	79.29	70	5	10				
4	Sat-04-12-2025-18:38:02	86.86	82.56	80.11	70	5	15				
5	Sat-04-12-2025-18:43:02	86.86	82.78	79.32	70	5	20				
6	Sat-04-12-2025-18:48:02	86.86	81.16	77.67	70	5	25				
7	Sat-04-12-2025-18:53:02	86.86	80.22	76.77	70	5	30				
8	Sat-04-12-2025-18:58:02	86.86	79.97	76.26	70	5	35				
9	Sat-04-12-2025-19:03:03	86.86	79.79	76.26	70	5	40				
10	Sat-04-12-2025-19:08:03	86.86	80.01	77.23	70	5	45				
11	Sat-04-12-2025-19:13:03	86.72	81.12	77.56	70	5	50				
12	Sat-04-12-2025-19:18:03	86.72	81.3	77.63	70	5	55				
13	Sat-04-12-2025-19:23:03	86.72	81.27	77.56	70	5	60				
14	Sat-04-12-2025-19:28:02	86.34	81.37	77.63	70	5	65				
15	Sat-04-12-2025-19:33:02	86.34	81.34	77.77	70	5	70				
16	Sat-04-12-2025-19:38:02	86.34	81.34	77.77	70	5	75				
17	Sat-04-12-2025-19:43:02	86.34	81.27	77.67	70	5	80				
18	Sat-04-12-2025-19:48:02	86.34	81.3	77.77	70	5	85				
19	Sat-04-12-2025-19:53:02	86.05	81.19	78.24	70	5	90				
20	Sat-04-12-2025-19:58:03	86.05	81.27	77.88	70	5	95				
21	Sat-04-12-2025-20:03:03	86.05	81.41	78.06	70	5	100				
22	Sat-04-12-2025-20:08:03	86.05	81.19	78.64	70	5	105				
23	Sat-04-12-2025-20:13:03	86.05	81.19	78.13	70	5	110				
24	Sat-04-12-2025-20:18:03	85.78	81.3	77.74	70	5	115				