# PREPARING A GOOGLE SHEET FOR ARDUINO LOGGING

- Create a new blank Google Sheet
- Goto Tools → Script editor
- Copy and paste the following code:

```
function doGet(e){
  Logger.log("--- doGet ---");

 var value0 = "",
     value1 = "",
     value2 = "",
     value3 = "",
     value4 = "",
     value5 = "";

  try {

    // this helps during debuggin
    if (e == null){e={}; e.parameters = {value0:"-29",value1:"-1"};}

    value0 = e.parameters.val0;
    value1 = e.parameters.val1;
    value2 = e.parameters.val2;
    value3 = e.parameters.val3;
    value4 = e.parameters.val4;
    value5 = e.parameters.val5;

    // save the data to spreadsheet
    save_data(value0, value1, value2, value3, value4, value5);


    return ContentService.createTextOutput("Wrote:\n  value0: " + value0 + "\n  value1: " + value1);

  } catch(error) {
    Logger.log(error);
    return ContentService.createTextOutput("oops...." + error.message
                                            + "\n" + new Date()
                                            + "\nvalue0: " + value0 +
                                            + "\nvalue1: " + value1);
  }
}
```

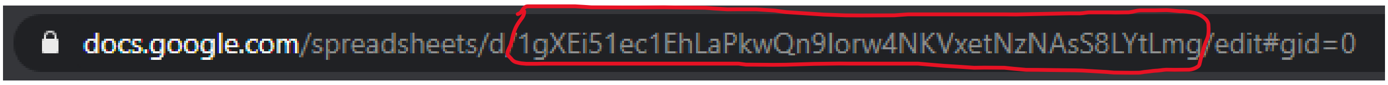
This code get takes the argument with the 6 values and separates the values, then calls the method you will create below.

- Add the following method (paste it below the previous code).

```
// Method to save given data to a sheet
function save_data(value0, value1, value2, value3, value4, value5){
  Logger.log("--- save_data ---");


  try {
    var dateTime = new Date();

    // Paste the URL of the Google Sheets starting from https thru /edit
    // For e.g.: https://docs.google.com/..../edit
    var ss =
SpreadsheetApp.openByUrl("https://docs.google.com/spreadsheets/d/1gXEi
51ec1EhLaPkwQn9lorw4NKVxetNzNAsS8LYtLmg/edit");
    var dataLoggerSheet = ss.getSheetByName("Datalogger");

    // Get last edited row from DataLogger sheet
    var row = dataLoggerSheet.getLastRow() + 1;

    // Start Populating the data
    //dataLoggerSheet.getRange("A" + row).setValue(row -1);      // ID
    dataLoggerSheet.getRange("A" + row).setValue(dateTime);     // dateTime
    dataLoggerSheet.getRange("B" + row).setValue(value0);       //
    dataLoggerSheet.getRange("C" + row).setValue(value1);       //
    dataLoggerSheet.getRange("D" + row).setValue(value2);       //
    dataLoggerSheet.getRange("E" + row).setValue(value3);       //
    dataLoggerSheet.getRange("F" + row).setValue(value4);       //
    dataLoggerSheet.getRange("G" + row).setValue(value5);       //

  }

  catch(error) {
    Logger.log(JSON.stringify(error));
  }

  Logger.log("--- save_data end---");
}
```

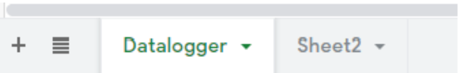
This function takes 6 values and writes these into a new row.

- Find your sheet id. Open your docs tab and copy the characters between d/ …. /edit. In the method you created earlier, replace the id (marked yellow above) with your sheet id.



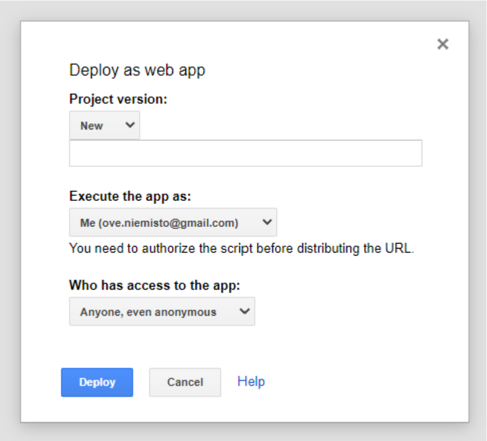
docs.google.com/spreadsheets/d/1gXEi51ec1EhLaPkwQn9lorw4NKVxetNzNAsS8LYtLmg/edit#gid=0

-
- Change the text marked blue to match the name of your sheet that you want to log to.



- You now have to publish the script. Goto Publish → Deploy as web app.
- Add a project name an click OK

- In the next page, change the access to anyone. Click deploy



Deploy as web app

Project version:

New

Execute the app as:

Me (ove.niemisto@gmail.com)

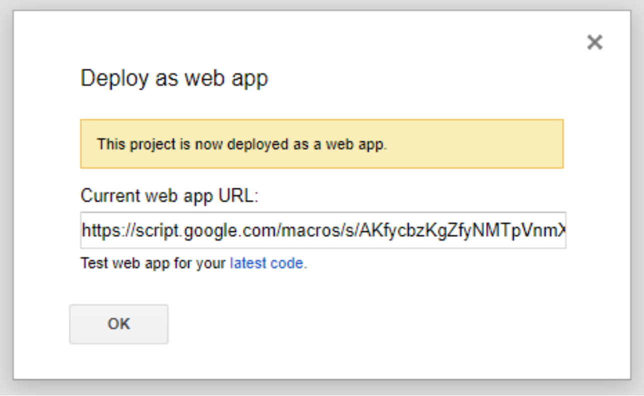
You need to authorize the script before distributing the URL.

Who has access to the app:

Anyone, even anonymous

- You may have to go through some extra steps to authorise if it's your first script.

- You should now see a window like the screenshot below. From the web app URL, copy the script id, located between macros/s/ ... /exec.



Deploy as web app

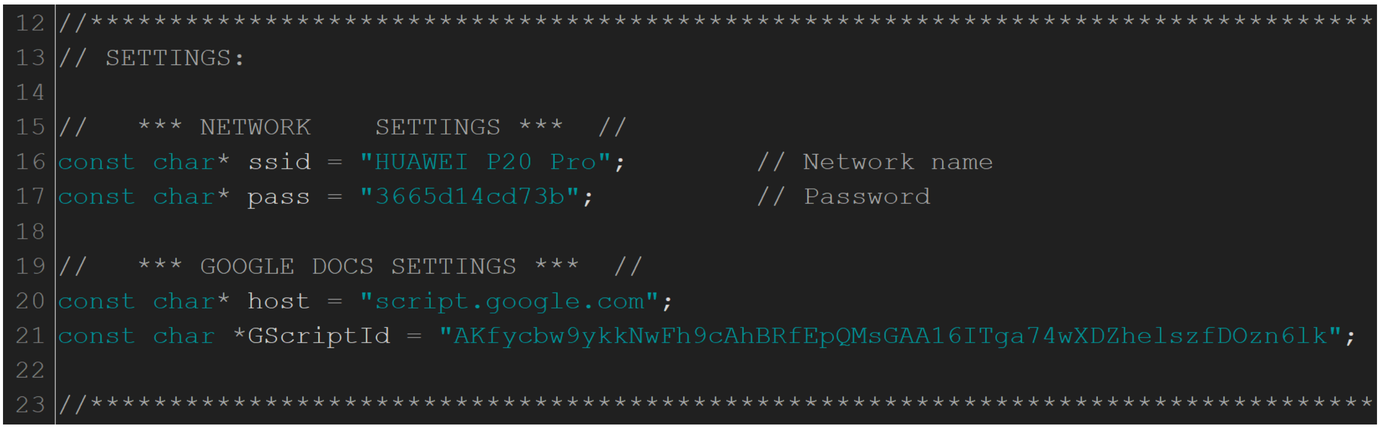
This project is now deployed as a web app.

Current web app URL:

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

Test web app for your latest code.

- In the **log_to_cloud.cpp** file, replace the GScriptId value with the id that you just copied.



```
//********************************************************************************
// SETTINGS:

//   *** NETWORK    SETTINGS ***   //
const char* ssid = "HUAWEI P20 Pro";        // Network name
const char* pass = "3665d14cd73b";          // Password

//   *** GOOGLE DOCS SETTINGS ***   //
const char* host = "script.google.com";
const char *GScriptId = "AKfycbw9ykkNwFh9cAhBRfEpQMsGAA16ITga74wXDZhelszfDOzn6lk";

//********************************************************************************
```

- You also have to change the "network settings".