

Apps Script Fun Coding Exercises 1



[Count Cells Function](#)

[Get Sheet Names Function](#)

[Count Rows in Sheet](#)

[Get values from Columns](#)

[Get Column Values by Letter](#)

Count Cells Function

Create a function that takes a spreadsheet as a parameter and returns the total number of cells with values in it.

```
function countCells(spreadsheet) {  
  var sheet =  
  SpreadsheetApp.openById(spreadsheet).getActiveSheet();  
  var range = sheet.getDataRange();
```

```

var values = range.getValues();
var count = 0;
for (var i = 0; i < values.length; i++) {
  for (var j = 0; j < values[0].length; j++) {
    if (values[i][j] != "") {
      count++;
    }
  }
}
return count;
}

```

Get Sheet Names Function

Create a function that takes a spreadsheet as a parameter and returns an array of all the sheet names in the spreadsheet.

```

function getSheetNames(spreadsheet) {
  var sheets =
SpreadsheetApp.openById(spreadsheet).getSheets();
  var sheetNames = [];
  for (var i = 0; i < sheets.length; i++) {
    sheetNames.push(sheets[i].getName());
  }
  return sheetNames;
}

```

Count Rows in Sheet

Create a function that takes a spreadsheet and a sheet name as parameters and returns the total number of rows in that sheet.

```
function countRows(spreadsheet, sheetName) {
  var sheet =
SpreadsheetApp.openById(spreadsheet).getSheetByName(sheetName);
  var range = sheet.getDataRange();
  var numRows = range.getNumRows();
  return numRows;
}
```

Get values from Columns

Create a function that takes a spreadsheet and a sheet name as parameters and returns an array of all the values in the first column of that sheet.

```
function getColumnValues(spreadsheet, sheetName) {
  var sheet =
SpreadsheetApp.openById(spreadsheet).getSheetByName(sheetName);
  var range = sheet.getDataRange();
  var values = range.getValues();
  var columnValues = [];
  for (var i = 0; i < values.length; i++) {
    columnValues.push(values[i][0]);
  }
  return columnValues;
}
```

Get Column Values by Letter

Create a function that takes a spreadsheet, a sheet name, and a column letter (e.g., "A", "B", "C") as parameters and returns an array of all the values in that column.

```
function getColumnValuesByLetter(spreadsheet,
sheetName, columnLetter) {
  var sheet =
SpreadsheetApp.openById(spreadsheet).getSheetByName(sheetName);
  var range = sheet.getRange(columnLetter + ":" +
columnLetter);
  var values = range.getValues();
  var columnValues = [];
  for (var i = 0; i < values.length; i++) {
    columnValues.push(values[i][0]);
  }
  return columnValues;
}
```