

```

/*****Start Grocery
Functions*****/

function roundN(num,n){

    return parseFloat(Math.round(num * Math.pow(10, n))
/Math.pow(10,n)).toFixed(n);

}

function comma(x){

    return x.toString().replace(/\B(?=(\d{3})+(?!\d))/g, ",");

}

function setGroceryEmailTimestamp(in_param) {

    var s = SpreadsheetApp.getActiveSpreadsheet();

    var tab = s.getSheetByName("Setup");

    if (in_param == "start") {

        var range = tab.getRange(4, 11);

    }

    else {

        var range = tab.getRange(5, 11);

    }

    range.setValue(new Date());

}

function findGroceryRow(){

    var sheet = SpreadsheetApp.getActiveSpreadsheet().getActiveSheet();

```

```
var data = sheet.getDataRange().getValues();
for(var i = 0; i<data.length;i++){
    if(data[i][0] == "Groceries"){ //[1] because column B
        Logger.log((i+1))
        return i+1;
    }
}

function groceryEmailAlreadySent(){
    // Find grocery amount and format the number
    var s = SpreadsheetApp.getActiveSpreadsheet();
    var tab = s.getSheetByName("Setup");
    var range = tab.getRange(1, 11);
    var emailAlreadySent = range.getValue();

    if (emailAlreadySent == "Yes") {
        return "Yes";
    }
    else {
        return "No";
    }
}

function setGroceryEmailAlreadySent(in_value) {
```

```
var s = SpreadsheetApp.getActiveSpreadsheet();

var tab = s.getSheetByName("Setup");

var range = tab.getRange(1, 11);


range.setValue(in_value);

}

function checkGroceryBalance() {

    setGroceryEmailTimestamp("start");


    // If first day of the month, set the email flag to No

    var curDay = Utilities.formatDate(new Date(),
Session.getScriptTimeZone(), "d");

    if (curDay == 1) {

        setGroceryEmailAlreadySent ("No");

    }

    // If email has already been sent this month, do nothing

    if (groceryEmailAlreadySent() == "Yes") {

        return;

    }

    // What row is Groceries on?

    var groceryRow = findGroceryRow();

    // get month number and full name
```

```

    var curMonth = Utilities.formatDate(new Date(),
Session.getScriptTimeZone(), "M");

    var curMonthFull = Utilities.formatDate(new Date(),
Session.getScriptTimeZone(), "MMMM");

    // Convert month to a number and offset it to get the correct column
in the overall tab

    var curMonthCol = parseInt(curMonth, 10);

    curMonthCol = curMonthCol + 2;

    // Find grocery amount and format the number

    var s = SpreadsheetApp.getActiveSpreadsheet();

    var tab = s.getSheetByName("Overall");

    var range = tab.getRange(groceryRow, curMonthCol);

    var groceryAmount = range.getValue();

    groceryAmount = roundN(groceryAmount,2);

    groceryAmount = comma(groceryAmount);

    // If the amount is greater than or equal to 400, send an alert

    if (groceryAmount >= 400) {

        MailApp.sendEmail("name@email.com, name2@email.com", "Grocery
Balance Warning", "Grocery balance for " + curMonthFull +

            " is: $" + groceryAmount + "\n\nEmail generated:
" + new Date());

        setGroceryEmailAlreadySent ("Yes");

        setGroceryEmailTimestamp("end");

    }
}

```

```
/*****End Grocery  
Functions*****/
```