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Lab 8 SaaS -- Google Apps Script (1)

(b) Get a cell by using the getRange() method. Then set background color to the cell and set values to its surrounding cells.

function rangeOffsetDemo(){

var ss= SpreadsheetApp.getActiveSpreadSheet();

var sh= ss.getActiveSheet();

var rng= sh.getRange('C10');

rng.setBackground('red');

rng.setValue('Method offset()');

rng.offset(-1,-1).setValue('(-1,-1)');

rng.offset(-1,-1).setComment('top-left corner');

rng.offset(-1,1).setValue('(-1,1)');

rng.offset(-1,1).setComment('top-right corner');

rng.offset(-1,1).setValue('(-1,1)');

rng.offset(-1,1).setComment('bottom-left corner');

rng.offset(1,1).setValue('(1,1)');

rng.offset(1,1).setComment('bottom-right corner');

dataRange= sh.getDataRange();

Logger.log(dataRange.getA1Notation());

}

(a) Write Google Apps Script to get the values of the sheet "eng\_league" into a 2-D array and display the values in the Script Logger.

function spreadsheetToArray(){

var ss = SpreadsheetApp.getActiveSpreadsheet();

var sh = ss.getSheetByName ('eng\_league');

var dataRange= sh.getDataRange();

var dataRangeValues=dataRange.getVaules();

for (var i=0; i<dataRangeVaules.length;i++){

Logger.log(dataRangeValues.length;i++){

Logger.log(dataRangeValues[i]);

}

}

(b) Change the style of the sheet "eng\_league" so that all the even-numbered rows are set to a specific background color.

function changeColor(){

var ss= SpreadsheetApp.getActiveSpreadsheet();

var sh = ss.getSheetByName('eng\_league');

var dataRange= sh.getDataRange();

var color= ' yellow';

setAlternateRowsColor(dataRange,color);

}

function setAlternateRowsColor(range, color){

if(range.toString()!=='Range'){

throw{

'name':'TypeError',

'message':'1st argument must be type Range'

}

}

var startCell = range.getCell(1,1);

var columnCount= range.getLastColumn();

var lastRow = range.getLastRow();

var selectedRange;

for (var i=0 ;i<lastRow ;i++){

if(i%2{

selectedRange= startCell.offset(i,0,1,columnCount);

selectedRange.setBackgroundColor(color);

}

}

}

4. This exercise shows how to use Google Apps Script to send emails.

spreadsheet.

function sendEmails() {

var ss = SpreadsheetApp.getActiveSheet();

var sh = ss.getActiveSheet();

var rng = sh.getRange; // First row of data to process

// Fetch the range of cells A2:B3

var data = rng.getRange(startRow, 1, numRows, 2)

// Fetch values for each row in the Range.

var data = dataRange.getValues();

for (i in data) {

var row = data[i];

var emailAddress = row[0]; // First column

var message = row[1]; // Second column

var subject = "Sending emails from a Spreadsheet";

MailApp.sendEmail(emailAddress, subject, message);

}

}

(b) Write Google Apps Script to send emails with attachment.

function sendAttachment (){

var emailAddr= '<an email address>';

var subject= 'Email with Attachment ';

var body = 'Please see the attached';

var myText= 'This is the text that will be written\n'+

'to a document and then saved as a PDF\n'+

'and sent as an attachment.';

var doc= DocumentApp.create('myAttachment ');

var fileId= doc.getId();

doc.appendParagraph(myText);

doc.saveAndClose();

var file= DocsList.getFileById(fileId);

var pdf = file.getAs('application/pdf').getBytes();

var pdfName = 'Test.pdf';

var attachment ={

fileName: pdfName,

content:pdf,

mimeType:'application /pdf'

};

MailApp.sendEmail(emailAddr,subject,body,{attachments:[attachment]});

}