

Queries	Solutions
How to apply Array Formula in Column	=ARRAYFORMULA(\$G\$5:\$G * \$H\$5:\$H)
This script is for combine multiple sheet data in one sheet	=QUERY({'2025'!A2:I;'2024'!A2:I;'2023'!A2:I;'2022'!A2:I;'2021'!A2:I;'2020'!A2:I;'2019'!A2:I;'2018'!A2:I},"SELECT * WHERE Col1 IS NOT NULL OR Col2 IS NOT NULL",0)
How to Insert data in to sheet .	<pre> Array = []; for(){ Array[i] = []; Array[i].push(arr[i][0]); Array[i].push(arr[i][1]); Array[i].push(arr[i][2]); insert(sheet,Array[i],2); } E.g. var addNewData = []; var reports = fetchsheetinactivefilebyGID(1389793800); addNewData[indexVal] = []; addNewData[indexVal].push(new Date()); addNewData[indexVal].push(Session.getEffectiveUser().getEmail()); for(var k = 0 ; k <= sheetAllData[indexVal].length ; k++){ if(k!=25 && k!=27){ addNewData[indexVal].push(sheetAllData[indexVal][k]); } } insertRow(reports,addNewData[indexVal],2); //***for insert data ***// function insertRow(sheet, rowData, optIndex) { //var index = optIndex 1; var index = optIndex ; sheet.insertRowBefore(index).getRange(index, 1, 1, rowData.length).setValues([rowData]); }//---End of insertRow()---// </pre>
How to add Custom Menu In Sheet	<pre> var ss = SpreadsheetApp.getActiveSpreadsheet(); var menu = []; menu.push({name:'Add Ingredient Items',functionName : "addNewIngredients"}) ss.addMenu("Ingredients",menu); var pmenu = []; pmenu.push({name:'Add Purchase Items',functionName : "addNewPurchase"}) ss.addMenu("Purchase",pmenu); </pre>

Hide Sheet Code	<pre> var sheet = SpreadsheetApp.getActiveSpreadsheet().getSheets(); Logger.log(sheet); //var user = Session.getActiveUser().getEmail(); var user = Session.getActiveUser().getEmail(); //Browser.msgBox(user); Logger.log(user); for(var ss in sheet){ if(user == "mailuser@testmail.com" && sheet[ss].getSheetId() == "740787435"){ sheet[ss].hideSheet(); } else { //if(sheet[ss].isSheetHidden()){ sheet[ss].showSheet(); //} } } </pre>
Know Last Edit User	<pre> function onEdit(e){ Logger.log(e); // Set a comment on the edited cell to indicate when it was changed. var range = e.range; range.setNote('Last modified: ' + new Date()+"User:"+Session.getActiveUser().getEmail()); } </pre>
Automatic Formula copy Down	<pre> function onEdit(e){ var mainSheet = e.source.getActiveSheet(); var col = mainSheet.getActiveRange().getColumn(); var row = mainSheet.getActiveRange().getRow(); Logger.log(col+" :: "+row); if(col==1){ var fillDown = mainSheet.getRange(2,2,row-1).setFormula("=SQRT(A2)"); mainSheet.getRange("B2").copyTo(fillDown); } } </pre>
Formula Copy down	<pre> if(col ==7){ var fd = mainSheet.getRange(1,8,row).setFormula("=(G1*G1)"); mainSheet.getRange("H1").copyTo(fd); } </pre>
Data Filter Or dynamic Drop Down	<pre> =ARRAYFORMULA(UNIQUE(FILTER(\$A\$3:\$A,\$D\$3:D = \$G\$3))) </pre>

Simple Form With Complete Validation

```
/**Function For Add Vendor Data**/  
function addVendor() {  
    if(SpreadsheetApp.getActiveSheet().getSheetId() == "1769813931"){  
        var ss = SpreadsheetApp.getActiveSheet();  
        var formSheetData = ss.getDataRange().getValues();  
        formSheetData.shift();//Remove heading of Whole Sheet Data  
        //Master Sheet Which is contain all data , Here Used For Data Validation//  
        var masterSheet = fetchsheetinactivefilebyGID(1384371091);  
        var masterSheetData = masterSheet.getDataRange().getValues();  
        masterSheetData.shift();  
        masterSheetData.shift();  
        var errorMsg = "Please Add Unique Data!!! It's Already Exists In Database";  
        var proceedMsg = "No duplicate Item/s Found. Confirm that you want to add these new Item/s?";  
        var mandMsg = "Vendor Name is Mandatory !!!";  
        var errorCodes = "";  
        var whichMsg = "";  
        var addTheseOnes = "";  
        var proceed;  
        if(formSheetData.length > 0) {  
            for(var i in formSheetData) {  
                if(masterSheetData.length > 0 ) {  
                    for(var j in masterSheetData) {  
                        if(formSheetData[i][0] == "" || formSheetData[i][0] == undefined) {  
                            whichMsg = mandMsg;  
                        }else if(masterSheetData[j][0] == formSheetData[i][0]) {  
                            var ii = parseInt(i) + parseInt(2);  
                            ss.getRange(ii,1).setBackground('#65A6AE');  
                            whichMsg = errorMsg;  
                            errorCodes += formSheetData[i][0] + "\n";  
                        } else {}  
                    }  
                }  
            }  
            //---End of for(var j in masterSheetData) Inner Loop ---//  
            //---End of if(masterSheetData.length > 0 )---//  
            if (whichMsg != errorMsg) {  
                addTheseOnes += formSheetData[i][0] + "\n";  
                ss.getRange(2,1,ss.getLastRow(),ss.getLastColumn()).clearFormat();  
            }  
            //---End of for(var i in formSheetData) Outer Loop ---//  
            if (whichMsg == mandMsg){  
                Browser.msgBox(mandMsg);  
                return;  
            } else if((whichMsg == errorMsg)){  
                Browser.msgBox(errorMsg + "\n" + errorCodes);  
                return;  
            } else {  
                proceed = Browser.msgBox(proceedMsg, addTheseOnes, Browser.Buttons.YES_NO);  
                if (proceed == 'yes') {  
                    var addNewData = [];  
                    for(var k in formSheetData){  
                        addNewData[k] = [];  
                        addNewData[k].push(formSheetData[k][0]);  
                        //Data Insert Here//  
                        masterSheet.insertRowBefore(3).getRange(3,1,1,addNewData[k].length).setValues([addNewData[k]]);  
                    }  
                    //---End of for(var k in formSheetData)---//  
                    ss.getRange(2,1, ss.getLastRow(),ss.getLastColumn()).clear({ formatOnly: true, contentsOnly: true });  
                } else if (proceed == ('no' || 'cancel')) {  
                    Browser.msgBox("Make Corrections and then Reprocess. See you later !!! ");  
                } else {}  
            }  
            //---End of Else---//  
        }  
    }  
}
```

Calender Date Book With Send Mail

```
//---Begin---Final code---//
function myFunction(e) {
    /*
    index of field
    0 Timestamp
    1 Email Address
    2 Event
    3 Start Date
    4 STime
    5 End Date
    6 ETime
    7 Location
    8 Description
    */
    Logger.log(e.values);
    var dddt = e.values[3].split('/');
    var edddt = e.values[5].split('/');
    //mm/dd/YYYY
    Logger.log(dddt[0]);
    Logger.log(dddt[1]);
    Logger.log(dddt[2]);
    var tm = e.values[4].split(':');
    var etm = e.values[6].split(':');
    //Logger.log(e.values[4].split(':'))
    Logger.log(tm[0]);
    Logger.log(tm[1]);
    Logger.log(tm[2]);
    var sptAMPM = tm[2].split(" ");
    var esptAMPM = etm[2].split(" ");
    Logger.log(sptAMPM[0]);
    Logger.log(sptAMPM[1]);

    Logger.log("==");
    Logger.log(dddt[2]);
    Logger.log(edddt[2]);
    Logger.log("==");
    var yr = dddt[2];
    var eyr = edddt[2];
    var start_date = new Date(yr,dddt[0]-1,dddt[1],tm[0],tm[1],sptAMPM[0],0);
    var end_date = new Date(eyr,edddt[0]-1,edddt[1],etm[0],etm[1],esptAMPM[0],0);
    //Logger.log(yr+"*****"+dddt[0]-1+"*****"+dddt[1]+"*****"+tm[0]+"*****"+tm[1]+"*****"+sptAMPM[0]+"&&&&"+eyr+yr);
    Logger.log(start_date);
    Logger.log(end_date);

    //CalendarApp.getDefaultCalendar().createAllDayEvent(e.values[2],start_date,end_date,{location:e.values[7],sendInvites:true,
    guests:'kk@gmail.com'});
    CalendarApp.getDefaultCalendar().createEvent(e.values[2],start_date,end_date,{location:e.values[7],sendInvites:true,
    guests:'kk@gmail.com'});
    MailApp.sendEmail({
        to:'kk@gmail.com',
        subject:'Calender Invaition ',
        htmlBody:'What you want , which is show Here'
    });
}
//---End---Final code---//

function myFunctiontest() {
    var cal = CalendarApp.getDefaultCalendar().createAllDayEvent("TEST KRS DHSNA A JUYO",new Date('Nov 23,2017'),new Date
```

How to Make Custom Menu ?

```
function onOpen() {
    var ui = SpreadsheetApp.getUi();
    // Or DocumentApp or FormApp.
    ui.createMenu('Custom Menu One')
        .addItem('First item', 'menuItem1')
        .addSeparator()
        .addSubMenu(ui.createMenu('Sub-menu')
            .addItem('Second item', 'menuItem2'))
        .addToUi();

    ui.createMenu('Custom Menu Two')
        .addItem('Option1-DialogBox', 'Option1function')
        .addSeparator()
        .addSubMenu(ui.createMenu('Option1-Sub')
            .addItem('Third item-Sidebar', 'Option2function'))
        .addToUi();
}

function menuItem1() {
    SpreadsheetApp.getUi() // Or DocumentApp or FormApp.
        .alert('You clicked the first menu item!');
}

function menuItem2() {
    SpreadsheetApp.getUi() // Or DocumentApp or FormApp.
        .alert('You clicked the second menu item!');
}

function Option1function(){
    //SpreadsheetApp.getUi()
    //alert('Main Menu Click !!!! ');
    //Begin for Custom Dialog Box
    var htmlDt = HtmlService.createHtmlOutputFromFile('demoFile')
        .setHeight(500)
        .setWidth(700);
    SpreadsheetApp.getUi()
        .showModalDialog(htmlDt, 'This is Only For Demo Purpose !!!!');
    //End for Custom Dialog Box
}

function Option2function(){
    //SpreadsheetApp.getUi()
    //alert('Sub Menu Click !!!! ');
    var htmlside = HtmlService.createHtmlOutputFromFile('demoFile')
        .setTitle('This is Side Bar !!! ')
        .setWidth(300);
    SpreadsheetApp.getUi()
        .showSidebar(htmlside);
}
```

How to Error Handle in Script?

```
// for Error Handling
function myFunction() {
  try{
    // for Error Generate --- dfjdjf ---
    var ui = SpreadsheetApp.getUi();
    var userChoice = ui.alert(
      'Please confirm',
      'Are you sure you want to continue?',
      ui.ButtonSet.YES_NO);
    if(userChoice == "YES") {
      Browser.msgBox("OK!!!");
    } else{
      Browser.msgBox("Cansel !!! ");
    }
  } catch (e){
    Logger.log(e.toString());
    MailApp.sendEmail(Session.getActiveUser().getEmail(), "Error Found !!! ", "Contact to Admin !!! ");
  }
}
```

get & Set Formula Automatic

```
function onEdit(e){

  var mainSheet = e.source.getActiveSheet();
  var col = mainSheet.getActiveRange().getColumn();
  var row = mainSheet.getActiveRange().getRow();
  Logger.log(col+" :: "+row);
  if(col==1){
    var fillDown = mainSheet.getRange(2,2,row-1).setFormula("=SQRT(A2)");
    mainSheet.getRange("B2").copyTo(fillDown);
  }
  if(col ==7){
    var fd = mainSheet.getRange(1,8,row).setFormula("=(G1*G1)");
    mainSheet.getRange("H1").copyTo(fd);
  }
}

function aabb(){

  var ss = SpreadsheetApp.getActiveSheet();
  var col = ss.getActiveRange().getColumn();
  var row = ss.getActiveRange().getRow();
  Logger.log(col+" :: "+row);
  Logger.log(ss.getLastColumn());
  Logger.log(ss.getLastRow()-1);
  //Logger.log(ss.getDataRange().getValues());
  var aa = ss.getActiveCell().getColumn();
  var bb = ss.getActiveRange().getColumn();
  Logger.log(bb);

}
```

https://docs.google.com/spreadsheets/d/13AJmRJpAiS3_1bMyHZPmYieeP15K0L-KbENi02-Xf0/edit#gid=0

Query Function IT's Power Full Function Of Google sheet	<code>=QUERY(Ingredient_Master,"SELECT A WHERE D='Dairy' ORDER BY A ASC ",0)</code>
Dependable drop down	<pre> **** This is for Dynamic Drop Down purpose **** function depDrop_(range, sourceRange){ var rule = SpreadsheetApp.newDataValidation().requireValueInRange(sourceRange, true).build(); range.setDataValidation(rule); } //---End of depDrop_(range, sourceRange)--- function onEdit(){ //---Begin For Ingredient Form--- if(SpreadsheetApp.getActiveSheet().getSheetId() == "276836978"){ //Use in Purchase Form for getting Ingredient Data var aCell = SpreadsheetApp.getActiveSheet().getActiveCell(); var aRow = aCell.getRow(); var aColumn = aCell.getColumn(); //For Ingredient Form if (aColumn == 1 && SpreadsheetApp.getActiveSheet()){ var range = SpreadsheetApp.getActiveSheet().getRange(aCell.getRow(), aColumn + 1); var sourceRange = SpreadsheetApp.getActiveSpreadsheet().getRangeByName(aCell.getValue()); depDrop_(range, sourceRange); } } } </pre>
Formula Set With Condition using Back Slash	<pre> addStockData[i].push("=SUM(QUERY(Purchase_Master,\"SELECT H WHERE E = \"&C3&\" \",0))"); addStockData[i].push("=SUM(QUERY(Purchase_Master,\"SELECT I WHERE E = \"&C3&\" \",0))"); //updateEmpMasterPart1.push("=if((today()-C2)>'D: Fixed Data'\$B\$3,\"Yes\",\"Not yet\")"); </pre>
Color Code With Conditional	<code>AND(\$A\$1:\$A="Handed Over to Student",ISBLANK(\$B\$1:\$B)=FALSE)</code>
How to use of Filter Function	<code>=FILTER(\$A\$1:\$B\$9,\$A\$1:\$A\$9=\$E\$1)</code>
auto provide \$ during range selection	Press F4 key Window OS
Multiple sheet Open Using Menu bar	<pre> function one(){ /* var ss = SpreadsheetApp.getActiveSpreadsheet(); SpreadsheetApp.setActiveSheet(ss.getSheets()[0]); */ sheetData(0); } function two(){ sheetData(87572974); } function sheetData(SheetID){ var ss = SpreadsheetApp.getActiveSpreadsheet().getSheets(); for(var i in ss){ if(ss[i].getSheetId() == SheetID){ return SpreadsheetApp.setActiveSheet(ss[i]); break; } } } </pre>

Spreadsheet Print Script	<pre>function printPdf() { SpreadsheetApp.flush(); var ss = SpreadsheetApp.getActiveSpreadsheet(); var sheet = ss.getActiveSheet(); var gid = sheet.getSheetId(); //var pdfOpts = '&size=A4&fzr=false&portrait=false&fitw=true&gridlines=false&printtitle=false&sheetnames=false&pagenum=UNDEFINED&attachme ent=false&gid='+gid; var pdfOpts = '&size=A4&fzr=false&portrait=false&fitw=true&gridlines=true&printtitle=false&sheetnames=false&pagenum=UNDEFINED&attachme nt=false&gid='+gid; var Avals = sheet.getRange("B1:B").getValues(); var entryRows = Avals.filter(String).length; var row2 = entryRows; var printRange = '&c1=0' + '&r1=0' + '&c2=5' + '&r2='+row2; // B2:APn var url = ss.getUrl().replace(/edit\$/, "") + 'export?format=pdf' + pdfOpts + printRange; var app = UiApp.createApplication().setWidth(500).setHeight(250); app.setTitle('Print this sheet'); var link = app.createAnchor('Download PDF', url).setTarget('_new'); app.add(link); ss.show(app); }</pre>
conditional count & Sum	<pre>"=SUMIFS(H1:H10,H1:H10,"3",G1:G10,"11"),"=COUNTIFS(G1:G10,"11",H1:H10,"3")," "</pre>
Auto Back up google sheet	<pre>function makeCopy() { // generates the timestamp and stores in variable formattedDate as year-month-date hour-minute-second var formattedDate = Utilities.formatDate(new Date(), "GMT", "yyyy-MM-dd' HH:mm:ss"); // gets the name of the original file and appends the word "copy" followed by the timestamp stored in formattedDate var name = SpreadsheetApp.getActiveSpreadsheet().getName() + " Copy " + formattedDate; // gets the destination folder by their ID. REPLACE xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx with your folder's ID that you can get by opening the folder in Google Drive and checking the URL in the browser's address bar var destination = DriveApp.getFolderById("xxxxxxxxxxxxxxxxxxxxxxxxxxxx"); // gets the current Google Sheet file var file = DriveApp.getFileById(SpreadsheetApp.getActiveSpreadsheet().getId()) // makes copy of "file" with "name" at the "destination" file.makeCopy(name, destination); }</pre>

Google spreadsheet send pdf mail

```
/* Email Google Spreadsheet as PDF */
function emailGoogleSpreadsheetAsPDF() {

    // Send the PDF of the spreadsheet to this email address
    var email = Session.getActiveUser().getEmail()

    // Get the currently active spreadsheet URL (link)
    var ss = SpreadsheetApp.getActiveSpreadsheet();

    // Subject of email message
    var subject = "PDF generated from spreadsheet " + ss.getName();

    // Email Body can be HTML too
    var body = "Install the <a href='http://www.labnol.org/email-sheet'>Email Spreadsheet add-on</a> for one-click conversion.";

    var blob = DriveApp.getFileById(ss.getId()).getAs("application/pdf");

    blob.setName(ss.getName() + ".pdf");

    // If allowed to send emails, send the email with the PDF attachment
    if (MailApp.getRemainingDailyQuota() > 0)
        GmailApp.sendEmail(email, subject, body, {
            htmlBody: body,
            attachments:[blob]
        });
}
```

E COMMERCE WITH GOOGLE DRIVE

```
/* PayPal Shop with Apps Script */

/* Written by Amit Agarwal - ctrlq.org */

PAYPAL = [
  ["product-001", "useful-websites-book.pdf"],
  ["product-002", "linux-training-course.mp4"],
  ["product-003", "steve-audio-book.mp3"],
  ["product-004", "presentation-template.ppt"]
];

function PayPal() {
  ScriptApp.newTrigger("myShop").timeBased().everyMinutes(5).create();
}

function myShop() {
  var file, size, files, threads;

  for (var p in PAYPAL) {

    threads = GmailApp.search("is:unread from:paypal " + PAYPAL[p][0]);

    if (threads.length > 0) {

      files = DriveApp.searchFiles("title contains '" + PAYPAL[p][1] + "'");

      if (files.hasNext()) {

        file = files.next();
        size = file.getSize()/(1024*1024);

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

          var buyer  = threads[i].getMessages()[0].getReplyTo();
          var subject = "Thank you for your purchase";
          var body    = "Please download the file using the link below.\n\n";

          if (size > 20) {
            file.addViewer(buyer);
            GmailApp.sendEmail(buyer, subject, body + file.getUrl());
          } else {
            GmailApp.sendEmail(buyer, subject, body, {attachments: file.getBlob()});
          }

          threads[i].markRead().moveToArchive();
        }
      }
    }
  }
}
```

Send mail with Attachment	<pre> function myFunction() { var revisionSSFileID = "1kt8fiHAV_TbP85px-LGQTqnZIPJVGFJ56Vu1cT2GN94"; var newSheetGID = 0 ; var arrearsGID = 196794054; var newSheetName = "kkindia"; var url = "https://docs.google.com/feeds/download/spreadsheets/Export?key=" + revisionSSFileID + "&exportFormat=xlsx&gid="+ newSheetGID; var url2 = "https://docs.google.com/feeds/download/spreadsheets/Export?key=" + revisionSSFileID + "&exportFormat=xlsx&gid="+ arrearsGID ; var params = { method : "get", headers : {"Authorization": "Bearer " + ScriptApp.getOAuthToken()}, muteHttpExceptions: true }; var blob = UrlFetchApp.fetch(url, params).getBlob(); blob.setName("Salary Revision File generated on " + newSheetName + ".xlsx"); var blob2 = UrlFetchApp.fetch(url2, params).getBlob(); blob2.setName("Arrears Effective from file.xlsx"); MailApp.sendEmail(Session.getActiveUser().getEmail(), "Google Sheet to Excel Format for Payroll (Greytip) Upload", "The XLSX file is attached.", {attachments: [blob,blob2]}); } </pre>
Dynamic Sub menu creating	<pre> function onOpen() { var ui = SpreadsheetApp.getUi(); var ss = SpreadsheetApp.getActiveSpreadsheet(); var sheets = SpreadsheetApp.getActiveSpreadsheet().getSheets(); var menu = ui.createMenu('Grade 8 '); var subMenu = ui.createMenu('Maths'); for(i=0; i < sheets.length; i++){ subMenu.addItem(sheets[i].getName(), "test"+i); } menu.addSubMenu(subMenu).addToUi(); } function test0(){ Browser.msgBox("ok");} function test1(){ Browser.msgBox("ok1");} function test2(){ Browser.msgBox("ok2");} function test3(){ Browser.msgBox("ok3");} function test4(){ Browser.msgBox("ok4");} </pre>

Cloud printing script

```
function test() {
  Logger.log(search())
  //Logger.log(printGoogleDoc("<docidhere>", "<printeridhere>"))
}
/*Find the printerid @ https://www.google.com/cloudprint/#printers
*select the printer, click details, and look under Advanced Details for the "printerid"
*/

/*This function will print a normal google doc by fileid
*/
function printGoogleDoc(docid, printerid, optDocName) {
  var doc = DriveApp.getFileById(docid);

  var title = optDocName || doc.getName();
  var ticket = {
    version: "1.0",
    print: {
      color: {
        type: "STANDARD_COLOR",
        vendor_id: "Color"
      },
      duplex: {
        type: "NO_DUPLEX"
      }
    }
  }
  var content = doc.getBlob();
  var optContentType = "application/pdf";
  var optTag = "";

  return submit(printerid, title, ticket, content, optContentType, optTag)
}
```

Send mail pdf file

```
function get_purchaseReport_SendMail({  
    auto_date_input();  
    var vendor_sheet = fetchsheetinactivefilebyGID(1384371091);  
    var v_value = vendor_sheet.getDataRange().getValues(); v_value.shift(); v_value.shift();  
    var main_sheet = fetchsheetinactivefilebyGID(1125044248);  
    var main_sheet_value = main_sheet.getRange("A1:G4").getValues();  
    var startDate = main_sheet_value[1][1];  
    var endDate = main_sheet_value[1][6];  
    var bill_data = main_sheet.getRange("A5").getValue();  
    var key='1Ewq qx6lACdXsUTf7HSRtFBfowx0Ldx7u9voK85LsEe4';  
    var subject = "Kitchen Purchase Report - "+startDate+" To "+endDate;  
    var emailBody = "This email contains the Attachment of vendor wise Purchase Report";  
    var params = {  
        method : "get",  
        headers : {"Authorization": "Bearer " + ScriptApp.getOAuthToken()},  
        muteHttpExceptions: true  
    };  
    var attachArray = [];  
    for(var i in v_value){  
        account_purchase_report(v_value[i][0]);  
        var bill_data = main_sheet.getRange("A5").getValue();  
        if(bill_data != ""){  
            var url = "https://docs.google.com/feeds/download/spreadsheets/Export?key="+ key + "&exportFormat=pdf&gid=1125044248";  
            var blob = UrlFetchApp.fetch(url, params).getBlob();  
            blob.setName("Purchase Report of "+v_value[i][0]+" .pdf");  
            attachArray.push(blob);  
        }  
    }  
} MailApp.sendEmail({  
    to: "mailuser@testmail.com",  
    subject: subject,  
    htmlBody: emailBody,  
    attachments: attachArray  
});  
}  
} //---End of totalVendorList()---//
```

Mail Advanced Script

```
/**First Load onOpen() Function***/
function onOpen(){
  var ss = SpreadsheetApp.getActiveSpreadsheet();
  var menu = [];
  menu.push({name:'Send Mail',functionName : "sendMailFunction"})
  ss.addMenu("Operations",menu);
}

function sendMailFunction(){
  try{
    var ss = SpreadsheetApp.getActiveSheet();
    if(ss.getSheetId() == 0){
      var subject_line = "Registration Confirmation - Surat Iyenger Yoga Event";
      var allData = ss.getRange(2,1,ss.getLastRow()-1,6).getValues();
      Logger.log(allData);
      var url_link = "http://nucleus.testmail.com";
      var confirm = "Are you sure to send bulk mail?";
      var j;
      if(Browser.msgBox("Mail Sending Process...", confirm, Browser.Buttons.YES_NO_CANCEL) == "yes"){
        for(var i in allData) {
          j = parseInt(i) + parseInt(2);
          Logger.log(j);
          if( allData[i][0]!=" " && allData[i][4]!=" " && ( allData[i][5] != "Sent" && allData[i][5]!="Pending" ) && validateEmail(allData[i][4]) ==
true && ( allData[i][0] == "Grade 1" || allData[i][0] == "Grade 2" || allData[i][0] == "Grade 3" || allData[i][0] == "Grade 4" ) && MailApp.
getRemainingDailyQuota() > 1){
            MailApp.sendEmail({
              to:allData[i][4],
              subject:"AS/PS Consent 2018-19",
              replyTo:"Surat@testmail.com",
              htmlBody:"<p>Dear Parent / Student,</p><p>You haven't yet marked your selection for AS & PS for the next year. Please
do so by logging into nucleus <a href='"+url_link+"'> login </a> from your parent account. If you don't mark your AS / PS preference
by 26th April, then we will choose one for you. For any further queries, kindly email us on Surat@testmail.com</p>"
            });
            ss.getRange("F"+j).setValue("Sent");
            Logger.log("Grade upto 4 %s",j);
          } else if( allData[i][0]!=" " && ( allData[i][3]!=" " || allData[i][4]!=" " ) && ( allData[i][5] != "Sent" && allData[i][5]!="Pending" ) && (
validateEmail(allData[i][3]) == true || validateEmail(allData[i][4]) == true ) && ( allData[i][0] == "Grade 5" || allData[i][0] == "Grade 6" ||
allData[i][0] == "Grade 7" || allData[i][0] == "Grade 8" || allData[i][0] == "Grade 9" || allData[i][0] == "Grade 10" || allData[i][0] ==
"Grade 11" || allData[i][0] == "Grade 12" ) && MailApp.getRemainingDailyQuota() > 1){
            MailApp.sendEmail({
              to:allData[i][3]+","+allData[i][4],
              subject:"AS/PS Consent 2018-19",
              replyTo:"Surat@testmail.com",
              htmlBody:"<p>Dear Parent / Student,</p><p>You haven't yet marked your selection for AS & PS for the next year. Please
do so by logging into nucleus <a href='"+url_link+"'> login </a> from your parent account. If you don't mark your AS / PS preference
by 26th April, then we will choose one for you. For any further queries, kindly email us on Surat@testmail.com</p>"
            });
            ss.getRange("F"+j).setValue("Sent");
            Logger.log("Grade 5 to 12 %s",j);
          }
        }
      }
    }
  } catch(e){
    Logger.log(e.toString());
  }
}
```

Send Mail doc to pdf	<pre> unction sendDoc(){ var subject = "Kitchen Purchase Report - "; var emailBody = "This email contains the Attachment of vendor wise Purchase Report"; var params = { method : "get", headers : {"Authorization": "Bearer " + ScriptApp.getOAuthToken()}, muteHttpExceptions: true }; var key = "1Am8xzen42S35zsTat72jYKSpTV7Xs2MqXnzGztckt8"; var url = "https://docs.google.com/feeds/download/documents/export/Export?id="+key+"&exportFormat=pdf"; var blob = UrlFetchApp.fetch(url, params).getBlob(); blob.setName("Purchase Report.pdf"); Logger.log(blob); MailApp.sendEmail({ to: "mailuser@testmail.com", subject: subject, htmlBody: emailBody, attachments: blob }); } </pre>
Provide double quotes	<pre> var text = "\"" + response[key].imagePath + "\""; </pre>
download xlsx file Link	<pre> var url = "https://docs.google.com/feeds/download/spreadsheets/Export?key=" + revisionSSFileID + "&exportFormat=xlsx&gid="+newSheetGID; var url2 = "https://docs.google.com/feeds/download/spreadsheets/Export?key=" + revisionSSFileID + "&exportFormat=xlsx&gid="+arrearGID ; </pre>

Convert Spreadsheet to JSON

```
function doGet(e){

    // Change Spread Sheet url
    var ss = SpreadsheetApp.openByUrl("Your Spread Sheet URL");

    // Sheet Name, Chnage Sheet1 to Users in Spread Sheet. Or any other name as you wish
    var sheet = ss.getSheetByName("Users");

    return getUsers(sheet);

}

function getUsers(sheet){
    var jo = {};
    var dataArray = [];

    // collecting data from 2nd Row , 1st column to last row and last column
    var rows = sheet.getRange(2,1,sheet.getLastRow()-1, sheet.getLastColumn()).getValues();

    for(var i = 0, l= rows.length; i<l ; i++){
        var dataRow = rows[i];
        var record = {};
        record['id'] = dataRow[0];
        record['name'] = dataRow[1];

        dataArray.push(record);
    }

    jo.user = dataArray;

    var result = JSON.stringify(jo);

    return ContentService.createTextOutput(result).setMimeType(ContentService.MimeType.JSON);

}
```


String_array_date_number etc. Various Validation Function

```
function isString (value) {  
    return typeof value === 'string' || value instanceof String;  
}  
  
function isNumber (value) {  
    return typeof value === 'number' && isFinite(value);  
}  
  
function isArray (value) {  
    return value && typeof value === 'object' && value.constructor === Array;  
}  
  
function isFunction (value) {  
    return typeof value === 'function';  
}  
  
function isObject (value) {  
    return value && typeof value === 'object' && value.constructor === Object;  
}  
  
function isNull (value) {  
    return value === null;  
}  
  
function isUndefined (value) {  
    return typeof value === 'undefined';  
}  
  
function isBoolean (value) {  
    return typeof value === 'boolean';  
}  
  
function isSymbol (value) {  
    return typeof value === 'symbol';  
}  
  
function isDate (value) {  
    return value instanceof Date;  
}  
  
function isError (value) {  
    return value instanceof Error && typeof value.message !== 'undefined';  
}  
  
function isRegExp (value) {  
    return value && typeof value === 'object' && value.constructor === RegExp;  
}
```

JavaScript Object References	<pre> var rect = { width: 20, height: 10 }; // add new object rect.color = { red: 0, green: 255, blue: 128 }; // add new method rect.getArea = function() { return this.width * this.height; }; alert(rect.color.red); // => 0 alert(rect.color.green); // => 255 alert(rect.color.blue); // => 128 alert(rect.getArea()); // => 200 </pre>
Complete Tutorial for Javascript	
Error handling in GAS	<pre> try{ // code } catch(e){ //code Logger.log(e.toString()); } </pre>
Fetch Same sheet data in google spreadsheet	<pre> function fetchsheetinactivefilebyGID (GID) { var ss = SpreadsheetApp.getActive(); var allsheets = SpreadsheetApp.getActive().getSheets(); for(var sheetnumber in allsheets){ // iterate all sheets and compare ids and fetch the one with the ID hardcoded if(allsheets[sheetnumber].getSheetId()==GID){break} } var sheet = ss.getSheets()[sheetnumber]; return sheet; }///---End of fetchsheetinactivefilebyGID()---// </pre>
Fetch Diff sheet data in google spreadsheet	<pre> function fetchsheetinGivenfilebyGID (ss, GID) { var allsheets = ss.getSheets(); for(var sheetnumber in allsheets){ // iterate all sheets and compare ids and fetch the one with the ID hardcoded if(allsheets[sheetnumber].getSheetId()==GID){break} } var sheet = ss.getSheets()[sheetnumber]; return sheet; }///---End of fetchsheetinGivenfilebyGID()---// </pre>
dd-MM-YYYY Formate date(01 Jan 2018)	<pre> function ISTdate (z) { // Logger.log(z); // Logger.log(IsNull(z)); if (IsNull(z)) {} else {z = Utilities.formatDate(z, "IST", "dd MMM yyyy");} return z } </pre>

Transpose Array	<pre>function transpose(a) { return a[0].map(function (_, c) { return a.map(function (r) { return r[c]; }); }); // or in more modern dialect // return a[0].map(_, c) => a.map(r => r[c]); } function specialTranspose(array) { var returnArray = []; var length = array.length; var width = array[0].length; for (i = 0; i < length; i++) { for (j = 0; j < width; j++) { returnArray.push(array[i][j]); } } // Logger.log(returnArray.length); var flatArray = []; flatArray[0] = []; for (k = 0; k < returnArray.length; k++) { flatArray[0].push(returnArray[k]); } return flatArray; }</pre>
Get Google Form ID (Component - Item)	<pre>var form = FormApp.getActiveForm(); var items = form.getItems(); for (var i in items) { Logger.log(items[i].getTitle() + ': ' + items[i].getId()); }</pre>

HTML Table Format Email Send 2*2 Matrix etc.

```
function abc(){
var TestArrayS = [
    ["Self Review - Scorecard","Team who had filed up the form","Rules Knowledge and Use","Fouls and Body Contact","Fair-
Mindedness","Positive Attitude and Self-Control","Communication","Total Score - Self Review"],
    ["",content[1],content[9],content[10],content[11],content[12],content[13],totPointSelf]
];

    var ColWidthArrayS = [350,200];
    var EmailbodyS = MakeHTMLTable(TestArrayS,ColWidthArrayS);

    MailApp.sendEmail({});
}

function MakeHTMLTable(TwoDArray, ColWidthArray) {
    var endofCell= "</td>";
    Logger.log("col length : "+ColWidthArray.length);
    var FirstColWidth = ColWidthArray[0];
    var SecondColWidth = ColWidthArray[1];

    var ColWidthOpener = "<col width='"+";
    var ColWidthCloser = "'>";

    var TableHeader = "<!DOCTYPE html><html><head><meta charset='UTF-8'><title>Table created using Google
Spreadsheet</title></head><body><!DOCTYPE html><html><head><meta charset='UTF-8'><title>HTML Table for Email on the
fly</title></head><body><table cellpadding='0' cellspacing='0' dir='ltr' border='1' style='table-layout:fixed;font-size:10pt;font-
family:arial,sans,sans-serif;width:0px;border-collapse:collapse;border:none'><colgroup>";
    Logger.log(TableHeader);

    var DefiningColumns = "";
    for(var k = 0; k < ColWidthArray.length; k++) {
        Logger.log(ColWidthArray[k]);
        DefiningColumns += ColWidthOpener + ColWidthArray[k] + ColWidthCloser; }
    Logger.log(DefiningColumns);

    TableHeader += DefiningColumns;
    Logger.log(TableHeader);

    //TableHeader += FirstColWidth + "'><col width='"+ SecondColWidth + "'></colgroup><tbody><tr style='height:21px'><td
style='overflow:hidden;padding:2px 3px;vertical-align:bottom;background-color:rgb(139,195,74);font-weight:bold'>";
    TableHeader += "</colgroup><tbody><tr style='height:21px'>";
    Logger.log(TableHeader);

    var HeaderRowStyle = "<td style='overflow:hidden;padding:2px 3px;vertical-align:bottom;background-color:rgb(139,195,74);font-
weight:bold'>";
    var HeaderCols = "";
    for(var m = 0; m < TwoDArray.length; m++) {
        Logger.log(TwoDArray[m][0]);
        HeaderCols += HeaderRowStyle + TwoDArray[m][0] + endofCell; }
    Logger.log(HeaderCols);
    TableHeader += HeaderCols;
    Logger.log(TableHeader);

    var endofRow= "</tr>";
    var startofRow= "<tr style='height:21px'>";
    var whiteRowCol= "<td style='overflow:hidden;padding:2px 3px;vertical-align:bottom'>";
    var greenRowCol= "<td style='overflow:hidden;padding:2px 3px;vertical-align:bottom;background-color:rgb(238,247,227)'>";
    var TableEnder = "</tbody></table></body></html></body></html>";

    var FullHTMLTable = TableHeader;
```

Numbers to Indian Decimal conversion	<pre> function numberToIndianNoDec(number){ var parts = number.toString().split("."); parts[0] = parts[0].replace(/\B(?=(\d{3})+(?!\d))/g, ","); parts[1] = ((parts[1] "") + "00").slice(0,0); return parts[0]; } function numberToIndian2Dec(number){ var parts = number.toString().split("."); parts[0] = parts[0].replace(/\B(?=(\d{3})+(?!\d))/g, ","); parts[1] = ((parts[1] "") + "00").slice(0,2); return parts.join("."); } </pre>
Only One column Data Length & Data Fetch	<pre> var Avals = itemInputSheet.getRange("E1:E").getValues(); var Alast = Avals.filter(String).length; </pre>
Confirmation Like confirm button(Javascript) in GAS	<pre> var cName = "Text...."; var proceed = Browser.msgBox("Add to the master list?", cName , Browser.Buttons.YES_NO); if (proceed == 'yes') { //Code } else { Browser.msgBox("Make desired changes require...& reprocess"); } } </pre>

push() pop() shift() unshift() Function Javascript

Unshift and shift make the whole array shift sideways (by adding and removing items from the beginning).

Push and pop do NOT make the array shift sideways (because they add and remove items at the end).

Shift() :

This method is similar to pop() method, the only difference is that it works at the beginning of the array. It delete the first element from the given array and returns it.

Example :

```
// Creating a test array
var data = [ "A", "B", "C" ];
// Delete the element from the beginning of the array.
data.shift();
Unshift() :
```

This method is similar to push() method, the only difference is that it works at the beginning of the array. It add one or more elements to the beginning of an array.

Example :

```
// Creating a test array
var data = [ "X" ];
// Add the element at the beginning of an array.
data.unshift( "B", "C" );
Push() :
```

This method can add one or more elements at the end of an array.

Example :

```
// Creating a test array
var data = [ "X" ];
// Add the element at the end of an array.
data.push( "B", "C" );
Pop() :
```

This method removes the last element from the given array and returns it.

Example :

```
// Creating a test array
var data = [ "A", "B", "C" ];
// Delete the element from the end of an array.
data.pop();
```


Javascript date function With Month names

```
function auto_date_input(){  
  
    var main_sheet = fetchsheetinactivefilebyGID(1432422303);  
    var today = new Date();  
    var dd = today.getDate();  
    var mm = today.getMonth()+1; //January is 0!  
    var yyyy = today.getFullYear();  
    if(dd<10){  
        dd='0'+dd;  
    }  
    if(mm<10){  
        mm='0'+mm;  
    }  
    var today = dd+'/'+mm+'/'+yyyy;  
    mm=mm;  
    //-----update : 18-Apr-2018 :kkindia-----//  
    //var m_names = new Array("Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec");  
    //JanFebMarAprMayJunJulAugSepOctNovDec  
  
}
```

How to Get, Parse, Query, and Return JSON

```
// make a GET request to the API
var chuckNorrisJSON = UrlFetchApp.fetch("http://api.icndb.com/jokes/random");

// log the text that you retrieved
Logger.log(chuckNorrisJSON)

function doPost(request){

    // get the sting value of the POST data
    var postJSON = request.postData.getDataAsString();

    // save that JSON to a file
    DriveApp.createFile('post.json', postJSON);

}

// define a file iterator
// that will iterate through all files with the name 'post.json'
var iter = DriveApp.getFilesByName("post.json");

// iterate through all the files named 'post.json'
while (iter.hasNext()) {

    // define a File object variable and set the Media Tyep
    var file = iter.next();
    var jsonFile = file.getAs('application/json')

    // log the contents of the file
    Logger.log(jsonFile.getDataAsString());

}

var myDog = {"name": "Rhino", "breed": "pug", "age": 8}

var myJSON = JSON.stringify(myDog);

function doGet(request){

    // return JSON text with the appropriate Media Type
    return ContentService.createTextOutput(myJSON).setMimeType(ContentService.MimeType.JSON);

}
```

Google apps script doGet & doPost

```
function doGet(){

  var appData = {
    "heading": "Hello World!",
    "body": "Welcome to the web app."
  };

  var JSONString = JSON.stringify(appData);
  var JSONOutput = ContentService.createTextOutput(JSONString);
  JSONOutput.setMimeType(ContentService.MimeType.JSON);
  return JSONOutput
}

function doPost(e){

  // Get the "text" query string value
  // eg. &text=Your%20Name
  var name = e.parameter.text

  // Get the Chuck Norris Joke
  var chuckQuote = postChuckNorris(name);

  // Return plain text Output
  return ContentService.createTextOutput(chuckQuote);
}

// Make a call to the Chuck Norris joke API
// parse the JSON and return only the joke
function postChuckNorris(name){

  var queryString = makeQueryString(name)

  var chuckData = UrlFetchApp.fetch("http://api.icndb.com/jokes/random/" + queryString);

  var chuckJSON = JSON.parse(chuckData.getContentText());
  var chuckQuote = chuckJSON.value.joke;

  return chuckQuote
}

// Helper function to assemble the query string for
// calling the Chuck Norris API from a given name
function makeQueryString(name){
  var query = ""

  if (name !== undefined){

    var names = name.split(" ");
    query = "?firstName=" + names[0];

    if (names[1] !== undefined){
      query += '&lastName=' + names[1];
    }

  }

  return query
}
```

JSON Convert	<pre>const myObj = { name: 'Skip', age: 2, favoriteFood: 'Steak' }; const myObjStr = JSON.stringify(myObj); console.log(myObjStr); // '{"name":"Skip","age":2,"favoriteFood":"Steak"}' console.log(JSON.parse(myObjStr)); // Object {name:"Skip",age:2,favoriteFood:"Steak"}</pre>
Google sheet to JSON output data	https://script.google.com/a/macros/testmail.com/s/AKfycbygukdW3tt8sCPcFDIkMnMuNu9bH5ft7bKV50p2bM/exec?id=SheetID&sheet=Sheet1

Publish Google Spreadsheets as JSON with Apps Script

```
/* Source: https://gist.github.com/daichan4649/8877801 */
function doGet(e) {

    var sheetName = "Sheet 1";
    var sheetId = "1234...";

    var book = SpreadsheetApp.openById(sheetId);
    var sheet = book.getSheetByName(sheetName);

    var json = convertSheet2JsonText(sheet);

    return ContentService
        .createTextOutput(JSON.stringify(json))
        .setMimeType(ContentService.MimeType.JSON);
}

function convertSheet2JsonText(sheet) {
    // first line(title)
    var colStartIndex = 1;
    var rowNum = 1;
    var firstRange = sheet.getRange(1, 1, 1, sheet.getLastColumn());
    var firstRowValues = firstRange.getValues();
    var titleColumns = firstRowValues[0];

    // after the second line(data)
    var lastRow = sheet.getLastRow();
    var rowValues = [];
    for(var rowIndex=2; rowIndex<=lastRow; rowIndex++) {
        var colStartIndex = 1;
        var rowNum = 1;
        var range = sheet.getRange(rowIndex, colStartIndex, rowNum, sheet.getLastColumn());
        var values = range.getValues();
        rowValues.push(values[0]);
    }

    // create json
    var jsonArray = [];
    for(var i=0; i<rowValues.length; i++) {
        var line = rowValues[i];
        var json = new Object();
        for(var j=0; j<titleColumns.length; j++) {
            json[titleColumns[j]] = line[j];
        }
        jsonArray.push(json);
    }
    return jsonArray;
}
```

Google App Script To Fetch Data From JSON Webservice and Write them to google spreadsheet.

```
function pullJSON() {  
  var ss = SpreadsheetApp.getActiveSpreadsheet();  
  var sheets = ss.getSheets();  
  var sheet = ss.getActiveSheet();  
  
  var url="http://example.com/feeds?type=json"; // Paste your JSON URL here  
  
  var response = UrlFetchApp.fetch(url); // get feed  
  var dataAll = JSON.parse(response.getContentText()); //  
  var dataSet = dataAll;  
  
  var rows = [],  
    data;  
  
  for (i = 0; i < dataSet.length; i++) {  
    data = dataSet[i];  
    rows.push([data.id, data.name,data.email]); //your JSON entities here  
  }  
  
  dataRange = sheet.getRange(1, 1, rows.length, 3); // 3 Denotes total number of entites  
  dataRange.setValues(rows);  
}
```

Delete Multiple Rows At a same time using script

```
function deleteRows() {  
  var sheet = SpreadsheetApp.getActiveSheet();  
  var rows = sheet.getDataRange();  
  var numRows = rows.getNumRows();  
  var values = rows.getValues();  
  
  var rowsDeleted = 0;  
  for (var i = 0; i <= numRows - 1; i++) {  
    var row = values[i];  
    if (row[0] == 'delete' || row[0] == "") { // This searches all cells in columns A (change to row[1] for columns B and so on) and deletes  
      row if cell is empty or has value 'delete'.  
      sheet.deleteRow((parseInt(i)+1) - rowsDeleted);  
      rowsDeleted++;  
    }  
  }  
}
```

Google form Creation using Google sheet

```
function myFunction() {
  var ss = SpreadsheetApp.getActiveSpreadsheet().getSheetByName('Sheet1');
  var range = ss.getDataRange();
  var data = range.getValues();
  var numberOfRows = range.getNumRows();
  var numberOfColumns = range.getNumColumns();
  var firstRow = 1;
  var form = FormApp.openById('PUT FORM URL NAME HERE');

  for(var i=0;i<numberOfRows;i++){
    var questionType = data[i][0];
    if (questionType==""){
      continue;
    }
    else if(questionType=="TEXT"){
      form.addTextItem()
        .setTitle(data[i][1])
        .setHelpText(data[i][2])
        .setRequired(true);
    }
    else if(questionType=="PARAGRAPH"){
      form.addParagraphTextItem()
        .setTitle(data[i][1])
        .setHelpText(data[i][2])
        .setRequired(true);
    }
    else if(questionType=="CHOICE"){
      var rowLength = data[i].length;
      var currentRow = firstRow+i;
      var currentRangeValues = SpreadsheetApp.getActiveSpreadsheet().getSheetByName('Sheet1').getRange(currentRow,1,1,
      rowLength).getValues();
      var getSheetRange = SpreadsheetApp.getActiveSpreadsheet().getSheetByName('Sheet1').getDataRange();
      var numberOfColumnsSheet = getSheetRange.getNumColumns();
      var numberOfOptionsInCurrentRow = numberOfColumnsSheet;
      var lastColumnInRange = String.fromCharCode(64 + (numberOfOptionsInCurrentRow));
      var range_string = 'E' + currentRow + ":" + lastColumnInRange + currentRow;
      var optionsArray = SpreadsheetApp.getActiveSpreadsheet().getSheetByName('Sheet1').getRange(range_string).getValues();
      var choicesForQuestion = [];
      for (var j=0;j<optionsArray[0].length;j++){
        choicesForQuestion.push(optionsArray[0][j]);
      }
      form.addMultipleChoiceItem()
        .setTitle(data[i][1])
        .setHelpText(data[i][2])
        .setChoiceValues(choicesForQuestion)
        .setRequired(true);
    }
    else if(questionType=="CHECKBOX"){
      var rowLength = data[i].length;
      var currentRow = firstRow+i;
      var currentRangeValues = SpreadsheetApp.getActiveSpreadsheet().getSheetByName('Sheet1').getRange(currentRow,1,1,
      rowLength).getValues();
      var getSheetRange = SpreadsheetApp.getActiveSpreadsheet().getSheetByName('Sheet1').getDataRange();
      var numberOfColumnsSheet = getSheetRange.getNumColumns();
      var numberOfOptionsInCurrentRow = numberOfColumnsSheet;
      var lastColumnInRange = String.fromCharCode(64 + (numberOfOptionsInCurrentRow));
      var range_string = 'E' + currentRow + ":" + lastColumnInRange + currentRow;
      var optionsArray = SpreadsheetApp.getActiveSpreadsheet().getSheetByName('Sheet1').getRange(range_string).getValues();
      var choicesForQuestion = [];
```


Array Unique	<pre>function uniqueElements(array) { return array.filter(function (value, index, self) { return self.indexOf(value) === index; }); }</pre>
get row no using datarange	<pre>var fullEntryData = entrySheet.getDataRange().getValues(); var entryData = []; for (var i = 0; i < fullEntryData.length; i++) { if (fullEntryData[i][1] == "") {break;} } var entryRows = i; var entryCols = entrySheet.getLastColumn(); var entryData = entrySheet.getRange(3,1,entryRows-2,entryCols).getValues();</pre>
Download google apps Script	https://script.google.com/feeds/download/export?format=json&id=[fileId]
Folder Creation Through Script	<pre>function drive_folder_test(){ var dr = DriveApp.getFolderById("1a2Ysj-EgcmNtk4_jwSwjgeVaX5cKJUQP"); var files = dr.getFolders(); var fl = "11K_TEST"; var data = ""; var cond = false; while(files.hasNext()){ data = files.next(); if(fl == data.getName()){ cond = true; break; } } if(!cond){ DriveApp.getFolderById("1a2Ysj-EgcmNtk4_jwSwjgeVaX5cKJUQP").createFolder(fl); } }</pre>
PDF GENERATING FROM DOC FILE FORMAT FILE	<pre>var driveFolder = DriveApp.getFolderById("1IDG_I7uX95tUNHZirGBA8Hkhg8IX-XZQ"); var htmlBody,blob; htmlBody = "",blob = ""; htmlBody = HtmlService.createHtmlOutput(HTML CODE GOES HERE).getContent(); blob = Utilities.newBlob(htmlBody, 'text/html').getAs('application/pdf').setName("PDF File Name"); driveFolder.createFile(blob);</pre>
Image show in pdf file	<pre>var image = UrlFetchApp.fetch('img.png'); var base64 = Utilities.base64Encode(image.getBlob().getBytes()); var img_view = '';</pre>