#1

```
function listContacts(){
   const contacts = ContactsApp.getContacts();
   Logger.log(contacts);
   contacts.forEach((contact)=>{
     const person = contact.getPrimaryEmail();
     if(person == 'tester@gmail.com'){
       Logger.log(contact.getPrimaryEmail());
       contact.setFullName('Laurence Tester');
       contact.setNickname('test Account');
     }
   })
 }
  function addPerson(){
   const contact = ContactsApp.createContact('Test','Account','tester@gmail.com');
   Logger.log(contact);
  }
```

#2

```
function updateText() {
   const id = '19gio49trkgsiehrBcfHQkJhWJqXd-r8pGmyPgIahJgo';
   const sheet = SpreadsheetApp.openById(id).getSheets()[0];
   Logger.log(sheet.getName());
   const data = sheet.getDataRange().getValues();
   Logger.log(data);
   data.forEach((str,index)=>{
     const newStr = LanguageApp.translate(str,'en','es');
     Logger.log(newStr);
     const range = sheet.getRange((index+1),2);
     range.setValue(newStr);
   })
 }
```

#3

```
function findMe() {
   const mapFinder = Maps.newGeocoder().setBounds(40.699642, -74.021072, 40.877569,
-73.908548).geocode('Main st');
   Logger.log(mapFinder);
   const results = mapFinder.results;
   Logger.log(results);
   const doc = DocumentApp.create('New Map 2');
   const body = doc.getBody();
```

```
  const map = Maps.newStaticMap();
  for(let i=0;i<results.length;i++){
    const result = results[i];
    map.setMarkerStyle(null,null,i+1);
    map.addMarker(result.geometry.location.lat,result.geometry.location.lng);
    body.appendListItem(result.formatted_address)
  }
  const img = Utilities.newBlob(map.getMapImage(),'image/png');
  body.appendImage(img);

}

 https://developers.google.com/maps/coverage
```

#4

```
function test1() {
  const user = Session.getActiveUser();
  Logger.log(user.getEmail());
}
 function test2(){
  const val1 = 'Hello';
  const val2 = 'World';
  Logger.log('This is the message %s %s',val1,val2);
}
 function test3(){
  const val1 = 'Hello';
  const val2 = 'World';
  Logger.log('This is the message %s %s',val1,val2);
  const val = Logger.getLog();
  const doc = DocumentApp.create('my Log');
  const body = doc.getBody();
  body.appendParagraph(val);
}
 function test4(){
  const userEmail = Session.getActiveUser().getEmail();
  Logger.log(userEmail);
  const val1 = 'Hello';
  const val2 = 'World';
  Logger.log('This is the message %s %s',val1,val2);
  const val = Logger.getLog();
  MailApp.sendEmail(userEmail,'my log',val);
}
```

#5

```
function doGet(){
   const myOutput = 'Hello World 2';
   //return ContentService.createTextOutput(myOutput);
   return ContentService.createTextOutput(myOutput).downloadAsFile('test.txt');
  }
```

#6

```
function doGet(){
   const html = HtmlService.createTemplateFromFile('temp');
   html.test = 'HELLO WORLD';
   return html.evaluate();
 }
  function test1(){
   const temp = '<h1>Hello World 2</h1><?= new Date() ?>';
   const html = HtmlService.createTemplate(temp);
   Logger.log(html.evaluate().getContent());
  }
  function doGet1(){
   const temp = '<h1>Hello World 2</h1><?= new Date() ?>';
   const html = HtmlService.createTemplate(temp);
   return html.evaluate();
 }
  function doGet2(){
   const html = '<h1>Hello World 2</h1>';
   return HtmlService.createHtmlOutput(html);
 }
  function doGet3(){
   const html = HtmlService.createHtmlOutputFromFile('index');
   Logger.log(html);
   return html;
 }

  <!DOCTYPE html>
 <html>
   <head>
     <base target="_top">
   </head>
   <body>
     <h1>Hello</h1>
     <p><?= new Date()?></p>
     <p><?= test ?></p>
   </body>
 </html>
  <!DOCTYPE html>
 <html>
   <head>
     <base target="_top">
     <style>
       body {
         background:red;
       }
       </style>
   </head>
   <body>
     <h1>Hello</h1>
     <p>Thank you for visiting</p>
   </body>
 </html>
```

#7

```
function doGet(e){
   const html = HtmlService.createTemplateFromFile('para');
   let allowed = 0;
   if('id' in e.parameters){
     allowed = e.parameters['id'][0];
   }
    html.data = allowed;
   return html.evaluate();

 }

  function doGet1(){
   const id = '19gio49trkgsiehrBcfHQkJhWJqXd-r8pGmyPgIahJgo';
   const sheet = SpreadsheetApp.openById(id).getSheetByName('Sheet1');
   const data = sheet.getDataRange().getValues();
   Logger.log(data);
   const html = HtmlService.createTemplateFromFile('output');
   html.data = data;
   return html.evaluate();
 }
  <script>
   const datags = <?!= JSON.stringify(data) ?>;
   console.log(datags);
  </script>
 <!DOCTYPE html>
 <html>
   <head>
     <base target="_top">
   </head>
   <body>
 <div class="output"></div>
     <script>
       const output = document.querySelector('.output');
       console.log(output);
       output.textContent = datags;
      </script>
   </body>
 </html>
```

#8

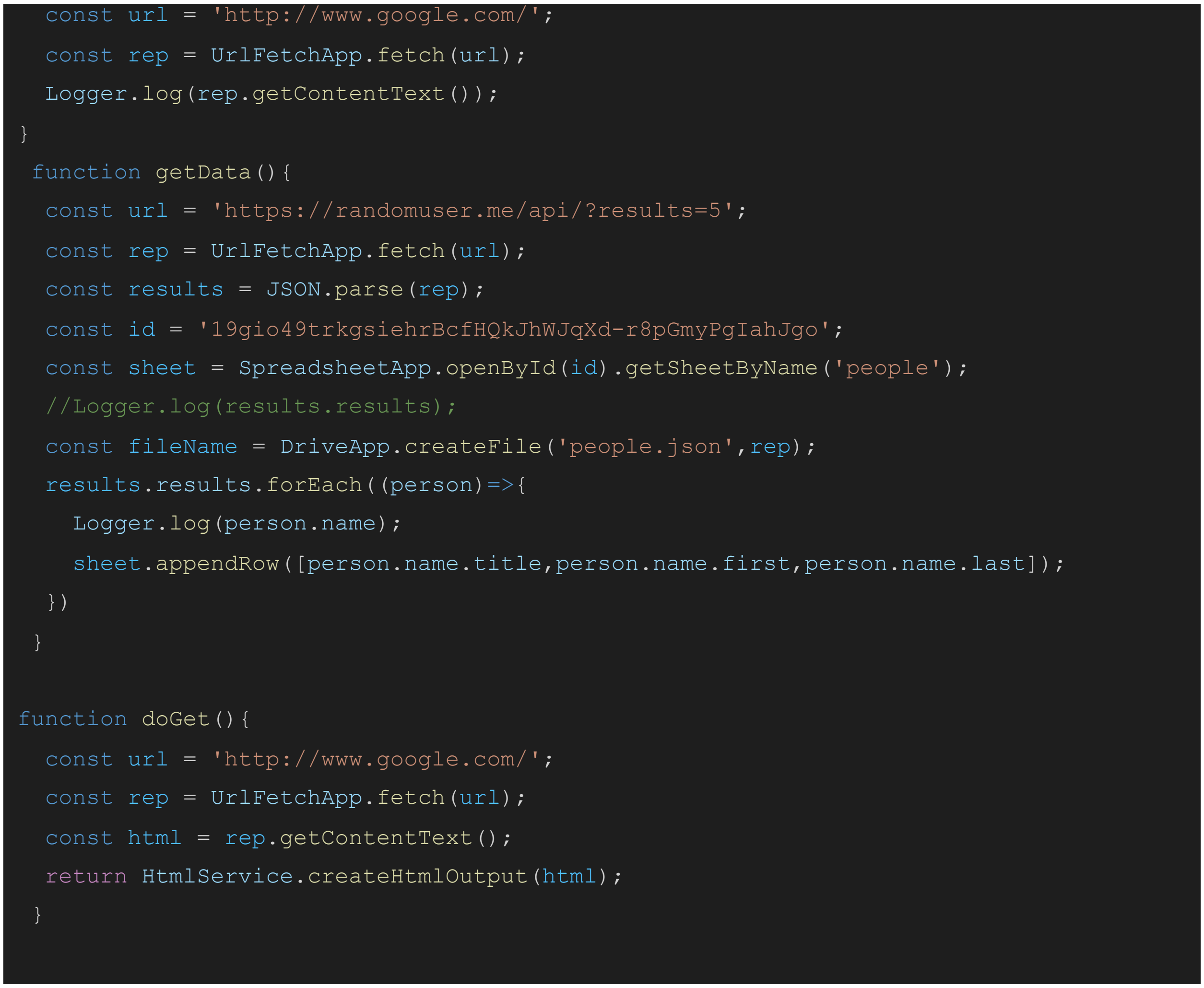
```
function doGet(){
   const html = HtmlService.createTemplateFromFile('data');
   return html.evaluate();
 }
  function testMessage(message){
   Logger.log(message);
   const id = '19gio49trkgsiehrBcfHQkJhWJqXd-r8pGmyPgIahJgo';
   const sheet = SpreadsheetApp.openById(id).getSheetByName('message');
   sheet.appendRow([message]);
   return {'response':true,'message':message};
  }
  <!DOCTYPE html>
 <html>
   <head>
     <base target="_top">
   </head>
   <body>
 <div class="output"></div>
 <input type='text' name='message' placeholder="your message" value='testing' >
 <button>Send Data</button>
     <script>
       const output = document.querySelector('.output');
       const message = document.querySelector('input');
       const btn = document.querySelector('button');
        btn.addEventListener('click',(e)=>{
         console.log(message.value);
         google.script.run.withSuccessHandler(onSuccess).testMessage(message.value);
       })

       function onSuccess(rep){
         console.log(rep);
       }
       console.log(output);
       </script>
   </body>
 </html>
```

#9

```
function pDoc() {
   const docProp = PropertiesService.getDocumentProperties();
   docProp.setProperty('myKey3','myValue4');
   Logger.log(docProp.getProperties());
   const props = docProp.getProperties();
   Logger.log(props['myKey2']);
   docProp.deleteProperty('myKey3');
   Logger.log(docProp.getProperties());
 }
 function pUsr(){
   const docProp = PropertiesService.getUserProperties();
   docProp.setProperty('myKey5','myValue4');
   Logger.log(docProp.getProperties());
   const props = docProp.getProperties();
   Logger.log(props['myKey2']);
   docProp.deleteProperty('myKey3');
   Logger.log(docProp.getProperties());
  }
  function pSci() {
   const docProp = PropertiesService.getScriptProperties();
   docProp.setProperty('myKey2','myValue4');
   Logger.log(docProp.getProperties());
   const props = docProp.getProperties();
   Logger.log(props['myKey2']);
   docProp.deleteProperty('myKey3');
   Logger.log(docProp.getProperties());
 }
```

#10

```
function getWebsite(){
```



```
  const url = 'http://www.google.com/';
  const rep = UrlFetchApp.fetch(url);
  Logger.log(rep.getContentText());
}
 function getData(){
  const url = 'https://randomuser.me/api/?results=5';
  const rep = UrlFetchApp.fetch(url);
  const results = JSON.parse(rep);
  const id = '19gio49trkgsiehrBcfHQkJhWJqXd-r8pGmyPgIahJgo';
  const sheet = SpreadsheetApp.openById(id).getSheetByName('people');
  //Logger.log(results.results);
  const fileName = DriveApp.createFile('people.json',rep);
  results.results.forEach((person)=>{
    Logger.log(person.name);
    sheet.appendRow([person.name.title,person.name.first,person.name.last]);
  })
 }

function doGet(){
  const url = 'http://www.google.com/';
  const rep = UrlFetchApp.fetch(url);
  const html = rep.getContentText();
  return HtmlService.createHtmlOutput(html);
 }
```