**Rathnavel Subramaniam (RVS) College of Arts & Science, Autonomous**

**School of Computer Studies- MCA**

**EoS Examination**

**Date: 09/02/2022**

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**Reg No:** **1P21MC012**

**Sub Code: 13Q**

**Subject: Web Development with JavaScript**

1. **Write JavaScript code that will** 
   1. **Display the top five earners in Boston (salaries) on the web page**
   2. **Display all employees who make a minimum of 200,000 in salary**

Code:

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <div id="container">

    </div>

    <script src="./data.js"></script>

    <script src="./walkboston.js"></script>

</body>

</html>

**data.js**

var boston= {

    "meta" : {

      "view" : {

        "id" : "4swk-wcg8",

        "name" : "Employee Earnings Report 2014",

        "attribution" : "Administration & Finance",

        "averageRating" : 0,

        "category" : "Finance",

        "createdAt" : 1426008060,

        "description" : "All City of Boston employees earnings, calendar year 2014",

        "displayType" : "table",

        "downloadCount" : 676,

        "indexUpdatedAt" : 1426012387,

        "licenseId" : "CC\_30\_BY",

        "newBackend" : false,

        "numberOfComments" : 0,

        "oid" : 10555242,

        "publicationAppendEnabled" : false,

        "publicationDate" : 1426008247,

        "publicationGroup" : 2455993,

        "publicationStage" : "published",

        "rowsUpdatedAt" : 1426008134,

        "rowsUpdatedBy" : "2pz3-cb5i",

        "tableId" : 2455993,

        "totalTimesRated" : 0,

        "viewCount" : 23987,

        "viewLastModified" : 1426008247,

        "viewType" : "tabular",

        "columns" : [ {

          "id" : -1,

          "name" : "sid",

          "dataTypeName" : "meta\_data",

          "fieldName" : ":sid",

          "position" : 0,

          "renderTypeName" : "meta\_data",

          "format" : { }

        }, {

          "id" : -1,

          "name" : "id",

          "dataTypeName" : "meta\_data",

          "fieldName" : ":id",

          "position" : 0,

          "renderTypeName" : "meta\_data",

          "format" : { }

        }, {

          "id" : -1,

          "name" : "position",

          "dataTypeName" : "meta\_data",

          "fieldName" : ":position",

**walkBoston.js**

function renderPosts(boston, container) {

    const people = boston.data;

    people.sort((a,b)=>{*return* b[11]-a[11]})

    const len = boston.data.length;

    var topSalaryPeople=[];

    let html = '';

*for* (let i = 0; i < len; i++) {

*if*(people[i][11]>200000){

                html +=

                '<li class="post">' + '<h2>' + people[i][8] + '</h2>' + '<h3>' + people[i][11] + '</h3>';

            }

    }

*for* (let i = 0; i < boston.data.length; i++) {

*if*(people[i][11]>=181000){

      html +=

        '<li class="post">' + '<h2 style="color: blue;">' + people[i][8] + '</h2>' + '<h3 style="color: blue;">' + people[i][11] + '</h3>';

        }

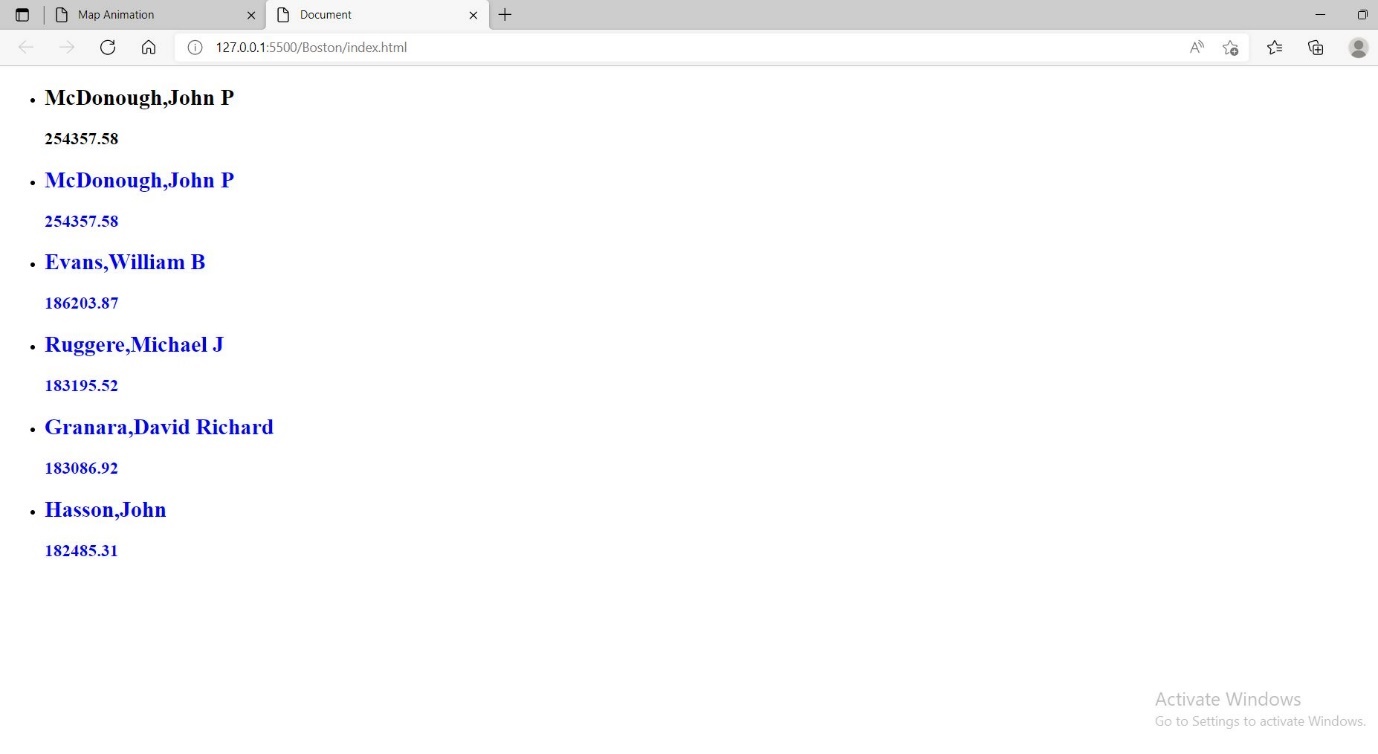
    }

    container.innerHTML = '<ul id = "data">' + html + '</ul>';

  }

  renderPosts(boston, document.getElementById('container'));

**Output:**



**GitHub Link:**

**GitHub Folder:** [**https://github.com/GITTOGEORGETHOMAS/Boston\_EOS-EXAM**](https://github.com/GITTOGEORGETHOMAS/Boston_EOS-EXAM)

**GitHub Output:** [**https://gittogeorgethomas.github.io/Boston\_EOS-EXAM/**](https://gittogeorgethomas.github.io/Boston_EOS-EXAM/)

**8.** Write a JavaScript code to **determine stops between 2 locations. Then add an animated marker on the map to highlight the bus routes.**

Code:

**Index.html**

<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8" />

    <title>Map Animation</title>

    <meta name="viewport" content="initial-scale=1,maximum-scale=1,user-scalable=no" />

    <script src="https://api.mapbox.com/mapbox-gl-js/v1.11.0/mapbox-gl.js"></script>

    <link href="https://api.mapbox.com/mapbox-gl-js/v1.11.0/mapbox-gl.css" rel="stylesheet" />

    <link href="style.css" rel="stylesheet" />

</head>

<body>

    <div id="map"></div>

    <div class="map-overlay top">

        <button style="font-size: 2em" onclick="move()">

            Show stops From Bangalore To Chennai

        </button>

    </div>

    <script src="script.js"></script>

</body>

</html>

**Styles.css**

body {

    margin: 0;

    padding: 0;

  }

  #map {

    position: absolute;

    top: 0;

    bottom: 0;

    width: 100%;

  }

  .map-overlay {

    position: absolute;

    left: 0;

    padding: 10px;

  }

**script.js**

const busStops = [

    [77.597783693529,12.97608935861465],

    [77.67100586855825, 12.855395427232079],

    [78.19174531314025, 12.546969105051298],

    [78.71248475772224, 12.810062145909786],

    [79.59588202978097, 12.897699106468087],

    [79.83765391476547, 12.921869428158253],

    [80.16001642807812, 13.048725146008424],

    [80.26540417281495, 13.097034052119255]

  ];

  mapboxgl.accessToken = 'pk.eyJ1IjoiZ2l0dG9nZW9yZ2V0aG9tYXMiLCJhIjoiY2t4NzVydHNxMmxqaDJ5cHphMWc1dGI5OCJ9.aCE6yhLf6UWWul-yRNBspg';

  let map = new mapboxgl.Map({

    container: 'map',

    style: 'mapbox://styles/mapbox/satellite-v9',

    center: [77.597783693529,12.97608935861465],

    zoom: 14,

  });

  let counter = 0;

 const marker= new mapboxgl.Marker()

 .setLngLat(busStops[counter])

 .addTo(map);

  function move() {

    marker.setLngLat(busStops[counter])

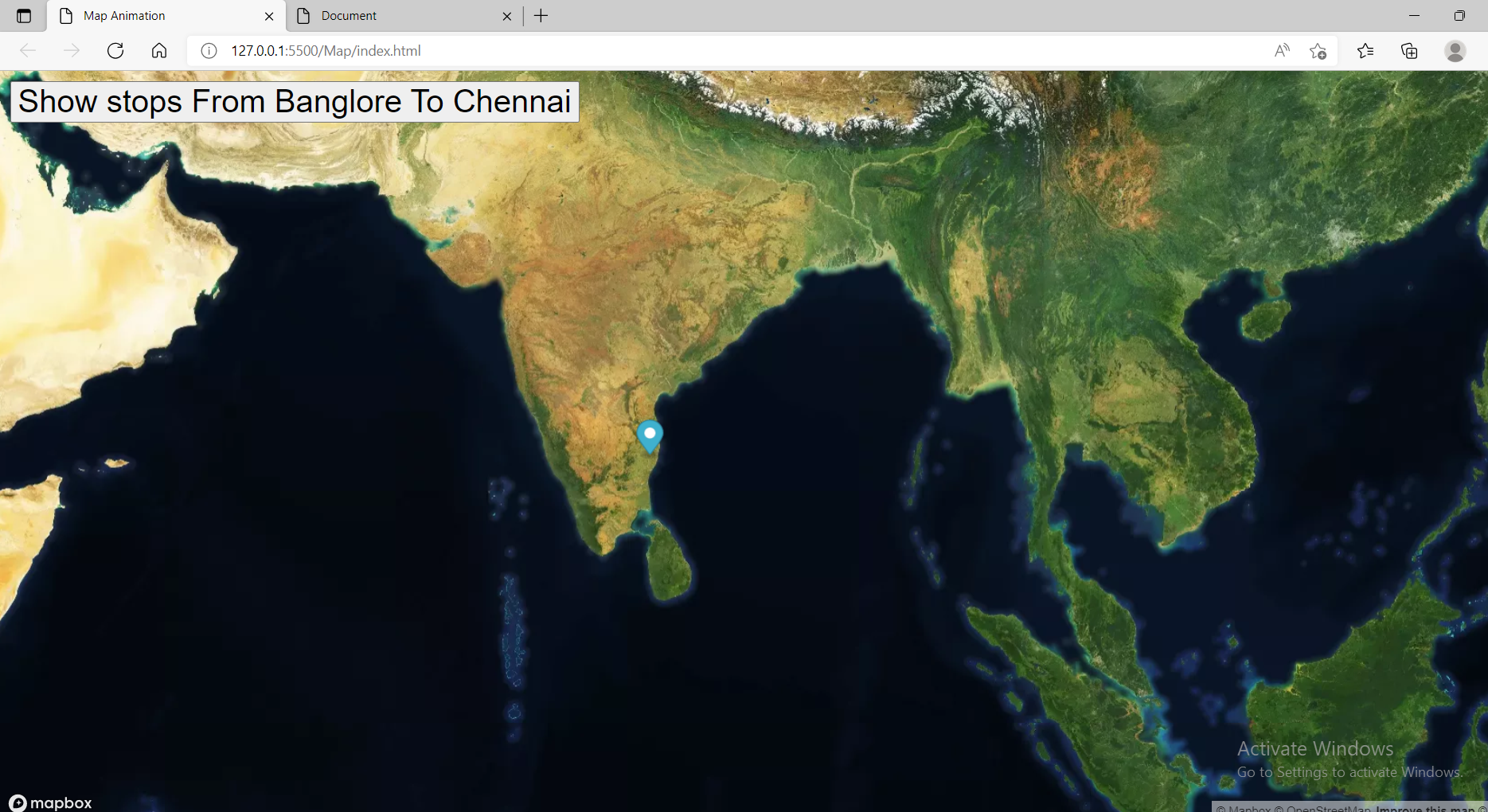
    marker.addTo(map)

    counter ++

    setTimeout(move,1000)

}

**Output:**



**GitHub Link:**

GitHub Folder : <https://github.com/GITTOGEORGETHOMAS/Map_Animation-Eos-Exam>

GitHub Output: <https://gittogeorgethomas.github.io/Map_Animation-Eos-Exam/>