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

**School of Computer Studies- MCA**

**EoS Examination**

**Date: 09/02/2022**

**Name: DINU G**

**Reg No:** **1P21MC011**

**Sub Code: 13Q**

**Subject: Web Development with JavaScript**

**3.** Write a JavaScript code to display and move Pacman from one side of the screen to the other and vice versa

Code:

**Index.html**

<html>

<head>

    <title>Simulation Pacman</title>

    <script src="pacman.js"></script>

    <style>

        body{

            background-color:purple;

        }

    </style>

</head>

<body>

<img id="PacMan" src="images/PacMan1.png" width='200' onclick="Run()" style="position:absolute;"> </img>

</body>

</html>

**Pacman.js**

var pos = 0;

let pageWidth = window.innerWidth;

const pacArray = [

  ["./images/PacMan1.png", "./images/PacMan2.png"],

  ["./images/PacMan3.png", "./images/PacMan4.png"],

];

var direction = 0;

var focus = 0;

function Run() {

  let img = document.getElementById("PacMan");

  let imgWidth = img.width;

  focus = (focus + 1) % 2;

  direction = checkPageBounds(direction, imgWidth, pos, pageWidth);

  img.src = pacArray[direction][focus];

  if (direction) {

            pos -= 1;

            img.style.bottom = pos + "px";

        } else {

            pos += 1;

            img.style.top = pos + 'px';

        }

}

setInterval(Run, 200);

function checkPageBounds(direction, imgWidth, pos, pageWidth) {

            if(pos >=1400){

              direction =1;

            }

            if(pos == 0){

              direction = 0;

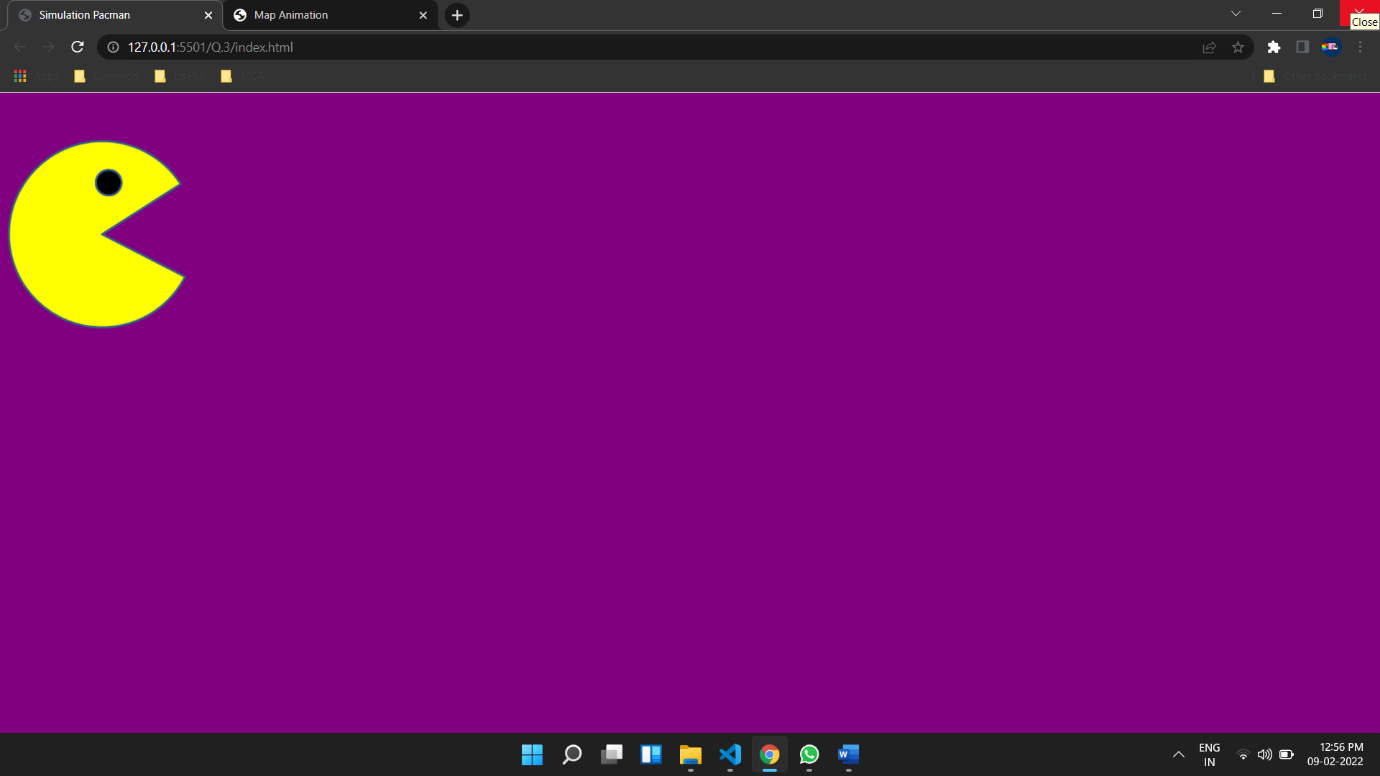
            }

  return direction;

}

module.exports = checkPageBounds;

**Output:**



**GitHub Link:**

GitHub Folder: <https://github.com/dinu273/pacman_exam>

GitHub Output:<https://dinu273.github.io/pacman_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="./styles.css" rel="stylesheet" />

</head>

<body>

    <div id="map"></div>

    <div class="map-overlay top">

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

            Show stops between RVS, Sulur and Palladam, Tamil Nadu

        </button>

    </div>

    <script src="mapanimation.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;

  }

**Mapanimation.js**

const busStops = [

    [77.1325155165289,  11.02617620872903],

    [77.13938197177221, 11.027861128884691],

    [77.1495099929649,  11.028029620264668],

    [77.17131098798882, 11.024828265728901],

    [77.18349894583685, 11.018256955139451],

    [77.19877680849142, 11.012022499179745],

    [77.20838984555805, 11.008146959961502],

    [77.22452601510332, 11.00140677039401 ],

    [77.24203547567373, 11.00005871397976 ],

    [77.26057490451298, 11.001743783534174],

    [77.27293452373915, 10.99871065140026,],

    [77.28512248158718, 10.99500344752299,],

  ];

  mapboxgl.accessToken = 'pk.eyJ1IjoiZGludWciLCJhIjoiY2t4NzVzaHJ5MGdybDJvbzBxZ3ZycHNzMyJ9.xJqtdYjnwuByV5WM8WqsTA';

  let map = new mapboxgl.Map({

    container: 'map',

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

    center: [77.1325155165289, 11.02617620872903],

    zoom: 14,

  });

  let counter = 0;

  const marker = new mapboxgl.Marker()

  .setLngLat(busStops[counter])

  .addTo(map);

   function move() {

    marker.setLngLat(busStops[counter])

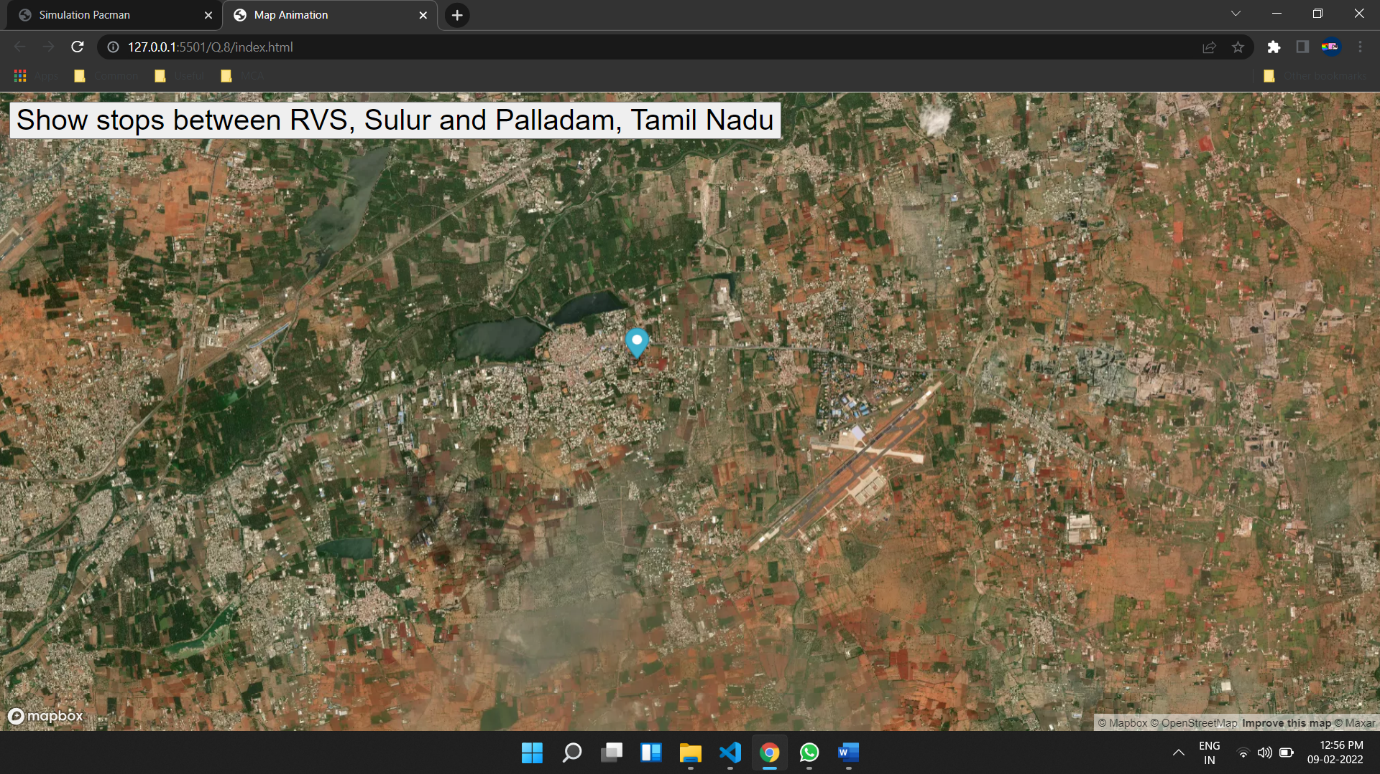
    marker.addTo(map)

    counter ++

    setTimeout(move,1000)

  }

**Output:**



**GitHub Link:**

GitHub folder: <https://github.com/dinu273/mapanimation_exam>

GitHub Output:  <https://dinu273.github.io/mapanimation_exam/>