EXP: 1   HTML & CSS

A) Create a Web Page to Embed a Map with Hotspots, Frames & Links

AIM:

Create a Web Page to Embed a Map with Hotspots, Frames & Links.

ALGORITHM:

Step 1: Create an HTML file (`index.html`).

- Define the document structure using `<html>`, `<head>`, and `<body>`.
- Set the page title and include internal CSS for basic styling.

Step 2: Embed an Image Map.

- Use the `<img>` tag to insert an image (map).
- Define a `<map>` element with a `name` attribute.
- Add `<area>` elements inside the `<map>` with different **shapes** (rectangle, circle, polygon).
- Assign **href** attributes to the `<area>` elements to make them clickable.

Step 3: Create Hyperlinks.

- Add `<a>` tags that allow navigation to different pages.
- Use the `target` attribute to open the linked pages in a frame.

Step 4: Add an Inline Frame (iframe).

- Use the `<iframe>` tag to display linked pages within the same webpage.
- Set the `name` attribute for the iframe to target it from links.

Step 5: Create Additional Pages (`page1.html, page2.html`).

- Define a simple HTML structure.
- Apply **CSS styles** for a visually appealing design.
- Test the project to ensure the map hotspots and frames work correctly.

PROGRAM:

<!DOCTYPE html>

```html
<html lang="en">

<head>
  <meta charset="UTF-8">

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

  <title>Subject Entry Form</title>

  <style>

    * {          margin: 0;

padding: 0;         box-sizing: border-

box;        font-family: "Poppins", sans-

serif;


    }                    body   {

background-color:          #f4f4f4;

display: flex;        justify-content:

center;         align-items: center;

height: 100vh;


    }

    .container {          width: 400px;

background: white;         padding: 20px;

border-radius: 10px;         box-shadow: 0px 4px

10px rgba(0, 0, 0, 0.2);


    }
    h2 {         text-align:

center;         color: #333;

margin-bottom: 20px;
```

```css
        }
        label {
font-weight: bold;
color: #555;        }        input,
select {        width: 100%;
padding: 10px;        margin-
top: 5px;        margin-
bottom: 15px;        border:
1px solid #ccc;        border-
radius: 5px;        font-size:
16px;

        }        button {
width: 100%;
padding: 12px;
background: #007bff;
color: white;        border:
none;        border-radius:
5px;        font-size: 18px;
cursor: pointer;
transition: 0.3s;

        }
        button:hover {
background: #0056b3;

        }
```

```css
    .message {

margin-top: 15px;

text-align: center;

color: green;          font-

weight: bold;


    }

  </style>

</head>

<body>


  <div class="container">

    <h2>▤ Subject Entry Form</h2>

    <form id="subjectForm">

      <label for="subjectCode">Subject Code:</label>

      <input type="text" id="subjectCode" placeholder="Enter Subject Code" required>
<label for="subjectName">Subject Name:</label>

      <input type="text" id="subjectName" value="WEB TECHNOLOGY AND MOBILE
APPLICATION" readonly>


      <label for="category">Category:</label>

      <select id="category">

        <option value="AI-DS & AI-ML">Artificial Intelligence & Data Science /
Artificial Intelligence & Machine Learning</option>

      </select>
```

```
        <button type="submit">Submit</button>

    </form>

    <p class="message" id="message"></p>

  </div>


  <script>        document.getElementById("subjectForm").addEventListener("submit",
function(event)

{                           event.preventDefault(); // Prevent form from reloading
document.getElementById("message").textContent = "✅ Subject details submitted
successfully!";

    });
  </script>
</body>
</html>
```
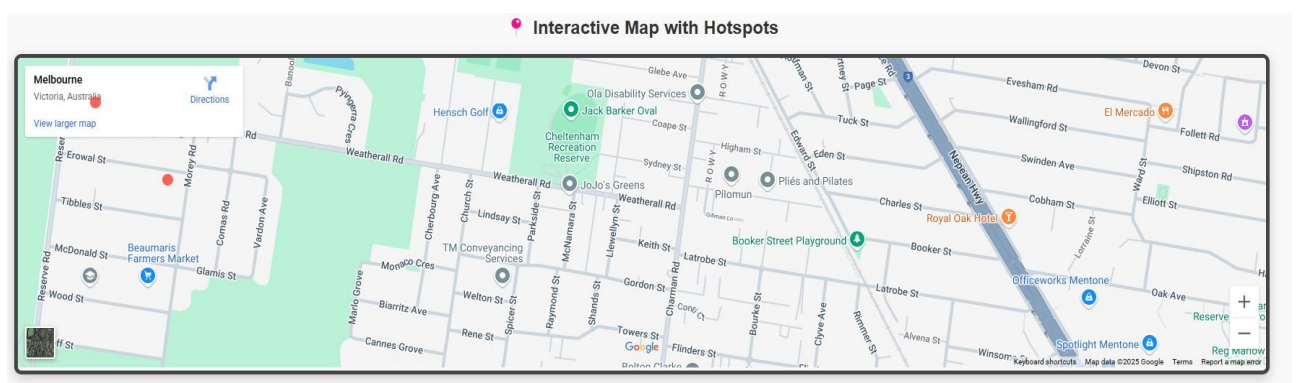
OUTPUT:

Interactive Map with Hotspots

RESULT: The image map with hotspots, frames, and link**s** is successfully created**.**

B) Create a Web Page Using Embedded, External & Inline CSS

AIM:

Create a Web Page Using Embedded, External & Inline CSS

ALGORITHM:

Step 1: Create an External CSS File (`style.css`).

- Define **body, headings, and paragraph styles** in `style.css`.
- Save the CSS file in the same directory as `index.html`.

Step 2: Create an HTML File (`index.html`).

- Define the structure using `<html>`, `<head>`, and `<body>`.
- Add a `<title>` tag for the page title.

Step 3: Link External CSS.

- ☐ Use `<link rel="stylesheet" href="style.css">` inside the `<head>` tag.

Step 4: Apply Embedded CSS.

- Add a `<style>` section inside `<head>`.
- Define styles for a **div box** with width, height, color, and border-radius.

Step 5: Apply Inline CSS.

- ☐ Use the `style` attribute in an HTML element (`<p>`) to apply color and font weight directly.

Step 6: Display Content.

- Use headings (`<h2>`) and paragraphs (`<p>`) to demonstrate different CSS types.
- Add a styled **div box** using embedded CSS.

Step 7: Test the Page.

- ☐ Open the HTML file in a browser to check if all styles (inline, embedded, external) are applied correctly.

PROGRAM:

INDEX.HTML:

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Elegant CSS Styling Example</title>
    <link rel="stylesheet" href="styles.css"> <!-- External CSS -->
</head>

<body style="background-color: #f0f2f5; font-family: 'Poppins', sans-serif; text-align: center; margin: 0; padding: 0;">
    <header>
```

```html
            <h1 style="color: #ff5733; font-size: 40px; padding: 20px;">🌟 Stylish CSS
Demo with More Color 🌟</h1>
    </header>

    <!-- Updated text with more vibrant styles -->
    <section>
        <p class="embedded-style">✨ This is a new, vibrant Embedded CSS text with
lots of color! ✨</p>
        <p class="external-style">🪐 Enjoy the modern green styling with smooth
hover effects! 🪐</p>
        <p class="fancy-style">🌸 Take a look at this stylish text with a gradient
background and more color! 🌸</p>
    </section>
</body>

</html>
```

STYLE.CSS:

```css
/* External CSS */

/* Embedded CSS - Enhanced */
.embedded-style {
    color: #007bff; /* Blue color */
    font-size: 26px; /* Larger font size */
    font-weight: bold;
    text-align: center;
    padding: 20px;
    border: 3px solid #007bff;
    border-radius: 10px;
    width: 60%;
    margin: 20px auto;
    background: #e0f7fa; /* Light cyan background */
    box-shadow: 0px 4px 20px rgba(0, 0, 0, 0.1);
    transition: transform 0.3s ease, background 0.3s ease;
}

/* Hover effect for embedded-style */
.embedded-style:hover {
    background: #b2ebf2;
    transform: scale(1.05);
}

/* External Style - Enhanced */
.external-style {
    color: #28a745; /* Green color */
```

```css
    font-size: 26px; /* Larger font size */
    font-weight: bold;
    text-align: center;
    padding: 20px;
    border: 3px solid #28a745;
    border-radius: 10px;
    width: 70%;
    margin: 20px auto;
    background: linear-gradient(135deg, #e0f7fa, #c8e6c9); /* Green gradient
background */
    box-shadow: 0px 4px 20px rgba(0, 0, 0, 0.15);
    transition: transform 0.3s ease, background-color 0.3s ease;
}

/* Hover effect for external-style */
.external-style:hover {
    background: #d4f8d4;
    transform: scale(1.05);
}

/* Fancy Style - New style with gradients */
.fancy-style {
    color: #f50057; /* Bright pink */
    font-size: 26px; /* Larger font size */
    font-weight: bold;
    text-align: center;
    padding: 20px;
    border: 3px solid #f50057;
    border-radius: 10px;
    width: 70%;
    margin: 20px auto;
    background: linear-gradient(45deg, #ff4081, #f50057); /* Pink gradient
background */
    box-shadow: 0px 4px 20px rgba(0, 0, 0, 0.2);
    transition: transform 0.3s ease, background-color 0.3s ease;
}

/* Hover effect for fancy-style */
.fancy-style:hover {
    background: linear-gradient(45deg, #f50057, #ff4081); /* Reversed gradient on
hover */
    transform: scale(1.05);
}

/* Body styling */
body {
    background-color: #f0f2f5; /* Light grey background */
```
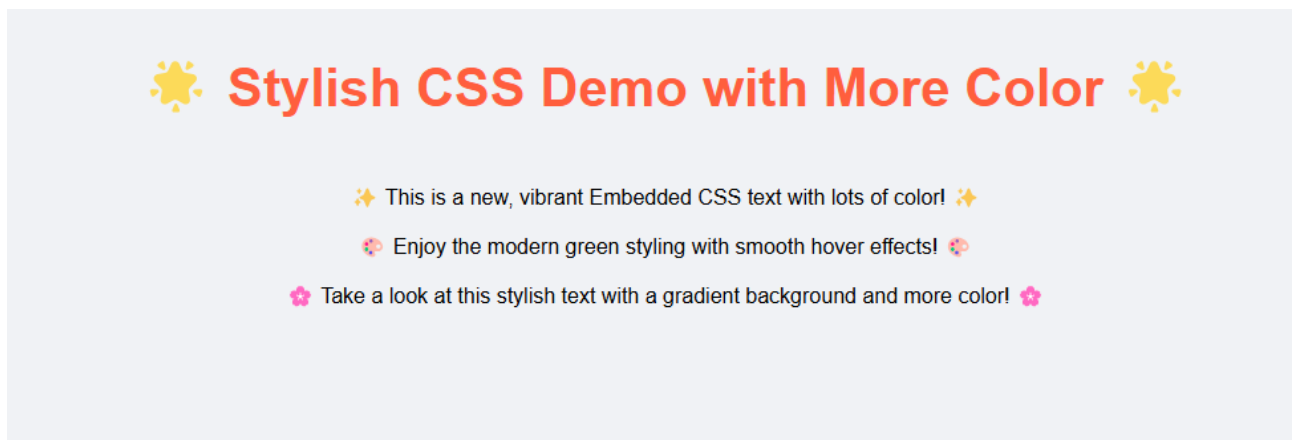
```css
    font-family: 'Poppins', sans-serif;
    margin: 0;
    padding: 0;
    color: #333;
}

/* Header styling */
header {
    background: linear-gradient(90deg, #ff5733, #ff8a3d); /* Gradient header */
    padding: 20px;
    color: white;
    text-align: center;
}
```

OUTPUT:

🌟 **Stylish CSS Demo with More Color** 🌟

✨ This is a new, vibrant Embedded CSS text with lots of color! ✨

🎨 Enjoy the modern green styling with smooth hover effects! 🎨

🌸 Take a look at this stylish text with a gradient background and more color! 🌸

RESULT: The webpage demonstrates external, embedded, and inline CSS styles effectively.