

# 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 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;  
}
```

```
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;

    }

    .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!";

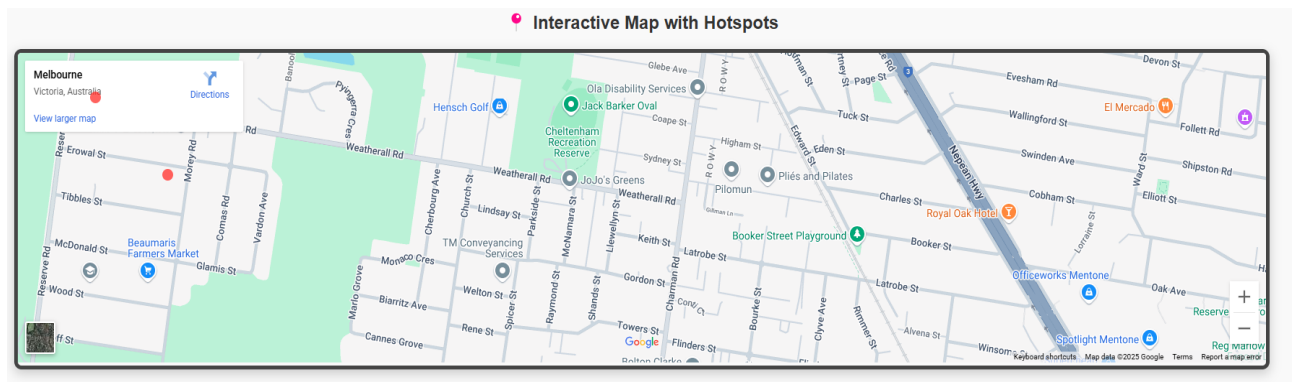
});

</script>

</body>

</html>

**OUTPUT:**



**RESULT:** The image map with hotspots, frames, and links 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:

```
<!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 -->

  <style>

    /* Embedded CSS */

    .embedded-style {

      color: #007bff;

      font-size: 20px;

      font-weight: bold;

      text-align: center;

      padding: 10px;

      border: 2px solid #007bff;

      border-radius: 5px;

      width: 50%;

      margin: 20px auto;

      box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.1);

      background: #f0f8ff;

    }

  </style>

</head>

<body style="background-color: #f8f9fa; font-family: 'Poppins', sans-serif; text-align: center;">

  <h1 style="color: #ff5733; font-size: 28px;">★ Styled with Inline CSS ★</h1>
```



<p class="embedded-style">✦ This text is styled using Embedded CSS ✦</p>

<p class="external-style">☹ This text is styled using External CSS ☹</p>

</body>

</html>

## STYLE.CSS:

.external-style {

color: #28a745;

font-size: 22px;

font-weight: bold;

text-align: center;

padding: 10px;

border: 2px solid #28a745;

border-radius: 5px;

width: 60%;

margin: 20px auto;

box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.1);

background: #e9ffe9;

transition: 0.3s;

}

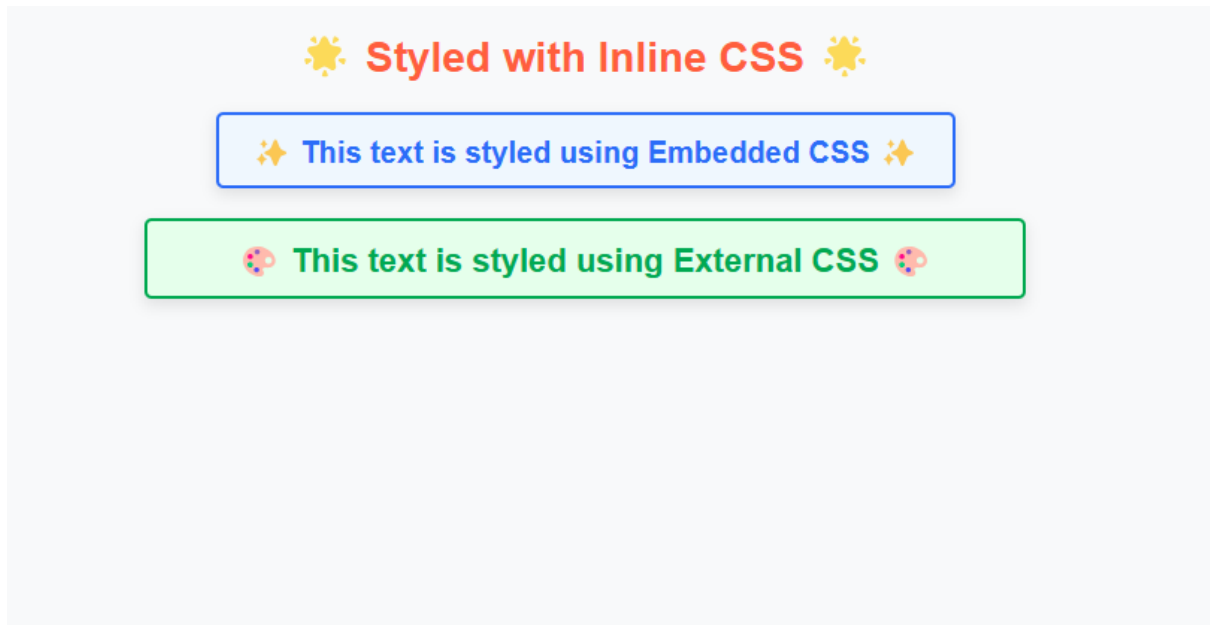
external-style:hover {

background: #d4f8d4;

transform: scale(1.05);

}

## OUTPUT:



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