AIM:

To create a web page that embeds a map with hotspots, frames, and links. The web page should be designed using HTML, incorporating embedded, external, and inline CSS for styling. This exercise aims to enhance understanding of integrating multimedia elements like maps, creating interactive hotspots, and organizing content using frames while applying different CSS techniques for styling.

ALGORITHM:

Create the HTML structure:

- Set up the basic HTML document with <!DOCTYPE html>, <html>, <head>, and <body> tags.

- In the <head>, link the external CSS file (<link> tag), define the title, and include any metadata.

- In the <body>, create the necessary elements:

    o **Frames**: Use the <frameset> tag to create a frame layout (for older browsers, use <iframe> instead).

    o **Map**: Use the <img> tag to display a map.

    o **Hotspots**: Create clickable regions using the <map> and <area> tags.

    o **Links**: Add hyperlinks (<a>) to navigate to different parts of the page or external sites.

    o

Create CSS Styles:

- **External CSS**: In a separate file, define styles such as colors, fonts, and layout for the entire page.

- **Inline CSS**: Use the style attribute within specific tags to apply styles (e.g., in <div> or <p> tags).

- **Embedded CSS**: Inside the <style> tag in the <head>, define styles for specific elements like the map, frames, and text.

Map with Hotspots:

- Use the <map> tag to create an image map.

- Define the <area> tag for each hotspot, specifying the coordinates (e.g., coords="x,y,x2,y2") for clickable areas on the map.

Frames:

- Use the <iframe> tag for embedding external content like a map or another webpage, with attributes such as src for the URL, width, and height.
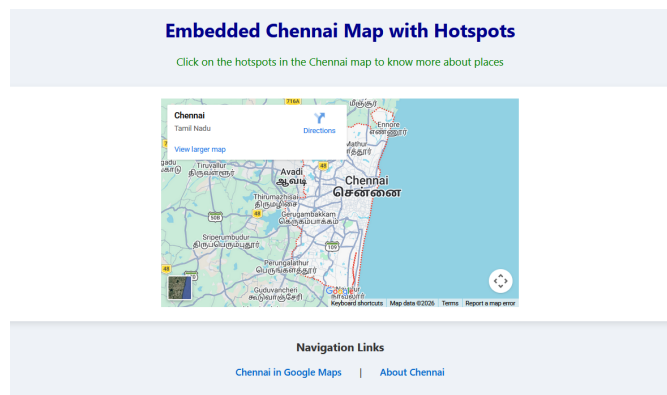
Add Links:

- Inside the <body>, use the <a> tag to create links for navigation (for example, to link to specific parts of the page or external sites).

Test the Page:

- Test the webpage to check the functionality of frames, hotspots, and links. Ensure that the map hotspots are clickable and the linked content displays correctly.

- Ensure that the styles are applied properly using inline, embedded, and external CSS.

OUTPUT:

RESULT:

Html Page is created with embedded Chennai map along with hot spot, frames & links.

EXP.NO: 2	
	Write JavaScript Programme to validate the following fields of the HTML Registration page.
DATE: 06/02/2025	

AIM:

To write JavaScript code to validate user input in a registration form. The validation will ensure that the data entered by the user meets specific criteria for each field. This will help in maintaining data integrity and prevent invalid submissions.

HTML code

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Chennai Map with Hotspots</title>

    <!-- External CSS -->
    <link rel="stylesheet" href="style.css">

    <!-- Embedded CSS -->
    <style>
        h1 {
            text-align: center;
            color: darkblue;
        }
        .map-section {
            text-align: center;
            margin-top: 20px;
        }
        iframe {
            border: 2px solid black;
        }
    </style>
</head>
<body>
    <h1>Embedded Chennai Map with Hotspots</h1>
    <!-- Inline CSS -->
    <p style="text-align:center; color:green; font-size:18px;">
        Click on the hotspots in the Chennai map to know more about places
    </p>
    <!-- Frame using iframe (Google Maps) -->
    <div class="frame-box">
        <iframe
            src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d248756.13131228785!2d80.04385969043575!3d13.0474733162
            width="600"
            height="350"
            style="border:0;"
            allowfullscreen
            loading="lazy">
        </iframe>
    </div>
    <!-- Links -->
    <div class="links">
        <h3>Navigation Links</h3>
        <a href="https://www.google.com/maps?q=Chennai" target="_blank">Chennai in Google Maps</a> |
        <a href="https://en.wikipedia.org/wiki/Chennai" target="_blank">About Chennai</a>
    </div>
</body>
</html>
```

css style code

```css
body {
    background-color: #eef2f7;   /* light bluish background */
    font-family: "Segoe UI", Arial, sans-serif;
    color: #333;
}

.frame-box {
    text-align: center;
    margin: 30px auto;
    padding: 20px;
    width: 80%;
    background-color: #ffffff;
    border-radius: 10px;
    box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);
}

.links {
    text-align: center;
    margin-top: 30px;
}

.links a {
    text-decoration: none;
    color: #0066cc;        /* calm blue */
    font-weight: 600;
    margin: 0 12px;
    padding: 8px 14px;
    border-radius: 6px;
    transition: all 0.3s ease;
}

.links a:hover {
    background-color: #0066cc;
    color: #ffffff;
}
```