

EXP : 1 Date:	Create a web page to embed a map along with hot spot, frames & links.
------------------	---

AIM :

The objective of this experiment is to develop a dynamic and engaging webpage by embedding an interactive image map.

ALGORITHM :

1. Start
 - Open an HTML document using <html>, <head>, and <body> tags.
 - Set up the document title inside the <title> tag.
2. Adding a Heading and Description
 - Use the <h1> tag for the main heading.
 - Use the <p> tag to describe the purpose of the webpage.
3. Embedding an Image for Mapping
 - Insert an image of a coffee brewing setup using the tag.
 - Assign a usemap attribute to link the image to a corresponding <map> element.
 - Define appropriate width and height for the image.
4. Creating an Interactive Map with Hotspots
 - Use the <map> tag with a unique name attribute.
 - Define multiple clickable areas within the image using <area> tags:
 - Specify the shape attribute (rect, circle, or poly).
 - Set coords (coordinates) to define the clickable region.
 - Use the href attribute to link each area to a relevant webpage.
 - Optionally, provide an alt attribute for accessibility.
5. Adding External and Internal Links
 - Use <a> tags to include hyperlinks to external websites.
 - Internal navigation can also be implemented by linking different sections within the same page.
6. Enhancing with Styling (Optional)
 - Use internal or external CSS (<style> tag or a separate .css file) to enhance the appearance of the webpage.
 - Apply styles to the table, text, and background for better visual appeal.
7. End
 - Properly close all opened HTML tags to maintain a structured and functional webpage.

CODE:

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Interactive Coffee Setup</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h1>Explore the Coffee Brewing Setup</h1>
  <p>Click on different parts of the setup to learn more.</p>

  <map name="coffeemap">
    <area shape="rect" coords="120,80,250,200" alt="Coffee Machine" href="coffee-
  machine.html">
    <area shape="circle" coords="350,250,50" alt="Coffee Beans" href="coffee-
  beans.html">
  </map>

</body>
</html>
```

coffee-machine.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Coffee Machine Details</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h1>Coffee Machine Specifications</h1>

  <table>
    <tr><th>Feature</th><th>Details</th></tr>
    <tr><td>Model</td><td>Breville Barista Express</td></tr>
    <tr><td>Type</td><td>Espresso Machine</td></tr>
    <tr><td>Water Capacity</td><td>2 Liters</td></tr>
    <tr><td>Power</td><td>1600W</td></tr>
    <tr><td>Price</td><td>$699.99</td></tr>
  </table>
  
  <div class="back-link">
    <a href="index.html">Back to Coffee Setup</a>
```

```
</div>
</body>
</html>
```

Coffee-beans.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Coffee Beans Details</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h1>Coffee Beans Specifications</h1>

  <table>
    <tr><th>Feature</th><th>Details</th></tr>
    <tr><td>Origin</td><td>Colombia</td></tr>
    <tr><td>Roast Level</td><td>Medium</td></tr>
    <tr><td>Flavor Notes</td><td>Chocolate, Caramel, Nutty</td></tr>
    <tr><td>Bag Size</td><td>500g</td></tr>
    <tr><td>Price</td><td>$15.99</td></tr>
  </table>
  
  <div class="back-link">
    <a href="index.html">Back to Coffee Setup</a>
  </div>
</body>
</html>
```

styles.css

```
body {
  font-family: Arial, sans-serif;
  margin: 20px;
  background-color: #f4f4f4;
  text-align: center;
}

h1 {
  color: #333;
}

p {
  font-size: 16px;
}

img {
  display: block;
  margin: 0 auto;
```

```
border: 2px solid #555;
}

a {
  display: block;
  margin-top: 20px;
  font-size: 18px;
  color: #4CAF50;
  text-decoration: none;
  font-weight: bold;
}

a:hover {
  text-decoration: underline;
}
```

OUTPUT :

Explore the Coffee Brewing Setup

Click on different parts of the setup to learn more.

Explore the Coffee Brewing Setup


Click on different parts of the setup to learn more.



[Visit Our Official Website](#)

Feature	Details
Origin	Colombia
Roast Level	Medium
Flavor Notes	Chocolate, Caramel, Nutty
Bag Size	500g
Price	\$15.99


Coffee Beans Specifications



[Back to Coffee Setup](#)

Feature	Details
Model	Breville Barista Express
Type	Espresso Machine
Water Capacity	2 Liters
Power	1600W
Price	\$699.99

Coffee Machine Specifications



[Back to Coffee Setup](#)

Result:
Thus, the given task is executes successfully.

EXP: 1b	Create a web page using an embedded, external and inline CSS file.
---------	--

AIM:

The objective of this experiment is to demonstrate the use of **inline, embedded, and external CSS** to enhance the appearance of a webpage.

ALGORITHM:**1. Start**

- Create an HTML document with `<html>`, `<head>`, and `<body>` tags.
- Set up character encoding and viewport settings using `<meta>` tags.

2. Implement External CSS

- Create a `styles.css` file with new colors, fonts, and layout changes.
- Link the CSS file inside the `<head>` section using `<link>`.

3. Implement Embedded CSS

- Use `<style>` inside `<head>` to add section-specific styles.

4. Apply Inline CSS

- Use style attributes within elements for quick changes (e.g., heading color).

5. Modify the Header and Navigation

- Change the background color and font styles of the header.
- Update the navigation bar layout and colors.

6. Modify the Main Content Section

- Adjust text styling for headings and paragraphs.
- Implement a flexible grid layout for a services section.
- Add hover effects for interactivity.

7. Modify the Footer

- Change background and text colors.
- Add spacing and shadow effects for better visibility.

8. End

- Ensure all CSS types (external, embedded, inline) are used effectively.
- Check responsiveness and validate proper styling.

CODE :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Enhanced Webpage</title>
  <link rel="stylesheet" href="styles.css">
  <style>
    .highlight {
      color: #ff6600;
      font-weight: bold;
    }
  </style>
</head>
<body>

  <header style="background-color: #003366; padding: 20px; text-align: center;">
    <h1 style="color: white; font-size: 32px;">Welcome to Our Enhanced Website</h1>
    <nav>
      <ul style="list-style: none; padding: 0;">
        <li style="display: inline; margin: 15px;">
          <a href="index.html" style="color: #ffcc00; text-decoration: none; font-weight:
bold;">Home</a>
        </li>
        <li style="display: inline; margin: 15px;">
          <a href="about.html" style="color: #ffcc00; text-decoration: none; font-weight:
bold;">About</a>
        </li>
        <li style="display: inline;">
          <a href="services.html" style="color: #ffcc00; text-decoration: none; font-
weight: bold;">Services</a>
        </li>
      </ul>
    </nav>
  </header>

  <section class="home-content">
    <h2 class="highlight">Our New Mission</h2>
    <p style="font-size: 20px; color: #444;">Delivering top-notch services with innovative
solutions.</p>
  </section>

  <section class="services-grid">
    <div class="service-box">
      <h3>Service 1</h3>
      <p>We offer customized solutions for your business growth.</p>
    </div>
    <div class="service-box">
      <h3>Service 2</h3>
      <p>Our team ensures quality and efficiency in every project.</p>
    </div>
    <div class="service-box">
```

```
        <h3>Service 3</h3>
        <p>We leverage technology to provide the best customer experience.</p>
    </div>
</section>

<footer>
    <p>&copy; 2025 Enhanced Webpage. All rights reserved.</p>
</footer>

</body>
</html>
```

External CSS:

```
body {
    font-family: 'Verdana', sans-serif;
    background-color: #eef2f3;
    color: #222;
    margin: 0;
    padding: 0;
    text-align: center;
}

nav ul {
    display: flex;
    justify-content: center;
    list-style: none;
    background: #002244;
    padding: 12px;
}

nav ul li {
    margin: 0 20px;
}

nav ul li a {
    color: #ffcc00;
    text-decoration: none;
    font-weight: bold;
    transition: 0.3s;
}

nav ul li a:hover {
    color: #ff6600;
}

.services-grid {
    display: grid;
    grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
    gap: 20px;
    padding: 20px;
}

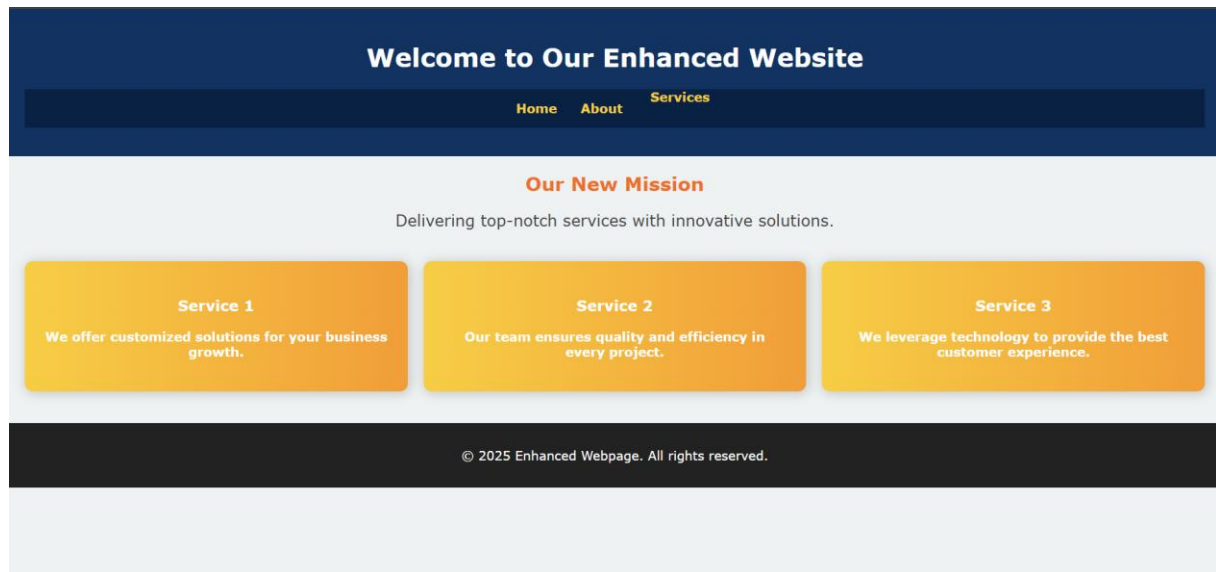
.service-box {
```



```
background: linear-gradient(to right, #ffcc00, #ff9900);
padding: 25px;
border-radius: 10px;
box-shadow: 2px 2px 15px rgba(0, 0, 0, 0.2);
color: white;
font-weight: bold;
}
```

```
footer {
background: #222;
color: white;
padding: 15px;
margin-top: 20px;
}
```

OUTPUT:



RESULT:

Thus, the given task is executed successfully.