



Lab Report-01

Web Engineering Lab

Course Code: CSE416

Instructor: Nishat Sadaf Lira

Name	Mehedi Hasan Saim
ID	221-15-4844
Section	61-J1
Date	20-08-2025

Tag 1: <html>

Description: Root element of an HTML document.

Common Attributes: lang

Code Snippet:

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

Output: Defines the start and end of an HTML document.

Influence: Serves as the container for all HTML content.

Tag 2: <head>

Description: Contains meta-information about the HTML document.

Common Attributes: None

Code Snippet:

```
<head><title>My Page</title></head>
```

Output: Doesn't appear visually; used for metadata.

Influence: Helps browsers and search engines understand the page.

Tag 3: <title>

Description: Sets the title of the HTML document (browser tab).

Common Attributes: None

Code Snippet:

```
<title>My Website</title>
```

Output: Shows "My Website" on the browser tab.



Influence: Improves SEO and user experience.

Tag 4: <body>

Description: Contains the visible contents of the webpage.

Common Attributes: bgcolor, background, style

Code Snippet:

```
<body style="background-color: lightblue;"></body>
```

Output: Applies background color to the whole page.

Influence: Everything the user sees is inside <body>.

Tag 5: <h1>

Description: Defines the largest heading.

Common Attributes: id, class, style

Code Snippet:

```
<h1>Welcome to My Website</h1>
```

Output: Big bold “Welcome” heading

Welcome to My Website

Influence: Marks the main heading of the page, improves structure.

Tag 6: <h2>

Description: Sub-heading, smaller than <h1>.

Code Snippet:

```
<h2>Introduction</h2>
```

Output: Medium-size “Introduction” heading

Introduction

Influence: Organizes content hierarchically.

Tag 7: <p>

Description: Defines a paragraph.

Code Snippet:

```
<p>This is a paragraph to demonstrate basic HTML structure.</p>
```

Output: Displays the text in block format

This is a paragraph to demonstrate basic HTML structure.

Influence: Adds readable text sections.

Tag 8: <a>

Description: Defines a hyperlink.

Common Attributes: href, target, title

Code Snippet:

```
<a href="https://example.com" target="_blank">Visit Example.com</a>
```

Output: Clickable link

[Visit Example.com](https://example.com)

Influence: Allows navigation between pages.

Tag 9:

Description: Embeds an image.


Common Attributes: src, alt, width, height

Code Snippet:

```

```

Output: Displays the image

 Placeholder Image

Influence: Adds visuals to the webpage.

Tag 10:

Description: Inserts a line break.

Code Snippet:

```
Hello<br>World
```

Output:

Hello

World

Influence: Helps in line formatting.

Tag 11: <hr>

Description: Inserts a horizontal line.

Code Snippet:

```
<hr>
```

Output: A horizontal rule

Influence: Visually separates content.

Tag 12: <div>

Description: Container for block-level content.

Code Snippet:

```
<div style="color: red;">Red Text</div>
```

Output: “Red Text” in red color

Red Text

Influence: Helps in layout and styling.

Tag 13:

Description: Inline container for styling.

Code Snippet:

```
<span style="color: blue;">Blue</span>
```

Output: “Blue” in blue color

Influence: Applies styles without breaking lines.

Tag 14:

Description: Unordered list

Code Snippet:

```
<ul>
  <li>Unordered Item 1</li>
  <li>Unordered Item 2</li>
</ul>
```

Output:

- Unordered Item 1
- Unordered Item 2

Influence: Used for lists with no order.

Tag 15:

Description: Ordered list

Code Snippet:

```
<ol>
  <li>Ordered Item 1</li>
  <li>Ordered Item 2</li>
</ol>
```

Output: Numbered list

1. Ordered Item 1
2. Ordered Item 2

Influence: Helpful in instructions/steps.

Tag 16:

Description: List item

Code Snippet:

```
<li>Item</li>|
```

Output: Item in a list

Influence: Makes up list content.

Tag 17: <form>

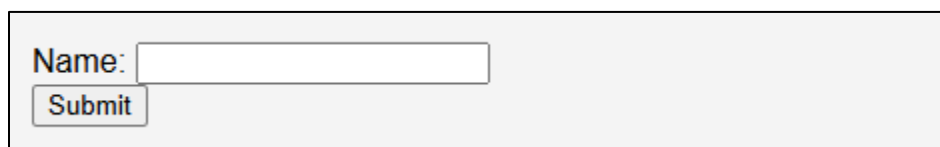
Description: Creates a form

Attributes: action, method

Code Snippet:

```
<form action="#" method="post">
  <label for="name">Name:</label>
  <input type="text" id="name" name="name">
  <br>
  <button type="submit">Submit</button>
</form>
```

Output: Form container



Influence: Accepts user input.

Tag 18: <input>

Description: Input field

Attributes: type, name, value

Code Snippet:

```
<input type="text" name="username">
```

Output: Text input box

Influence: Allows user to enter data.

Tag 19: <button>

Description: Clickable button

Code Snippet:

```
<button>Submit</button>
```

Output:



Influence: Triggers actions.

Tag 20: <label>

Description: Label for input fields

Code Snippet:

```
<label for="name">Name:</label>  
<input id="name" type="text">
```

Output:



Influence: Improves accessibility.

Tag 21: <table>

Description: Defines a table.

Common Attributes: border, cellpadding, cellspacing

Code Snippet:


```
<table>
  <tr>
    <th>Header 1</th>
    <th>Header 2</th>
  </tr>
  <tr>
    <td>Data 1</td>
    <td>Data 2</td>
  </tr>
</table>
```

Output: A bordered table with one cell

Header 1	Header 2
Data 1	Data 2

Influence: Organizes data in rows and columns.

Tag 22: <tr>

Description: Table row

Code Snippet:

```
<tr><td>Row 1</td></tr>
```

Output: One row in a table

Influence: Used to define each row in a table.

Tag 23: <td>

Description: Table data/cell

Code Snippet:

```
<td>Cell 1</td>
```

Output: A single table cell

Influence: Holds the actual data inside a table.

Tag 24: <th>

Description: Table header cell

Code Snippet:

```
<th>Header 1</th>  
<th>Header 2</th>
```

Output: A bold, centered table header

Header 1	Header 2	
----------	----------	--

Influence: Labels columns/rows, improves readability.

Tag 25: <iframe>

Description: Embeds another webpage

Common Attributes: src, width, height

Code Snippet:

```
<iframe src="https://example.com" width="300" height="100"></iframe><br><br>
```

Output: Shows the embedded page



Influence: Used to display external content like maps or videos.

Tag 26:

Description: Makes text bold with emphasis

Code Snippet:

```
<strong>This is strong text.</strong>
```

Output: Bold text “Important”

This is strong text.

Influence: Adds semantic importance to content.

Tag 27:

Description: Emphasizes text (usually italic)

Code Snippet:

```
<em>This is emphasized text.</em>
```

Output: Italic “Note this”

This is emphasized text.

Influence: Highlights key phrases semantically.

Tag 28: <meta>

Description: Provides metadata about the document

Common Attributes: name, content, charset

Code Snippet:

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

Output:

Not visible in browser

Influence: Helps with SEO, encoding, and page behavior.

Tag 29: <link>

Description: Links external resources (like CSS)

Common Attributes: rel, href, type

Code Snippet:

```
<link rel="stylesheet" href="styles.css">
```

Output: Not visible; applies CSS

Influence: Adds styling to the website via external files.

Tag 30: <script>

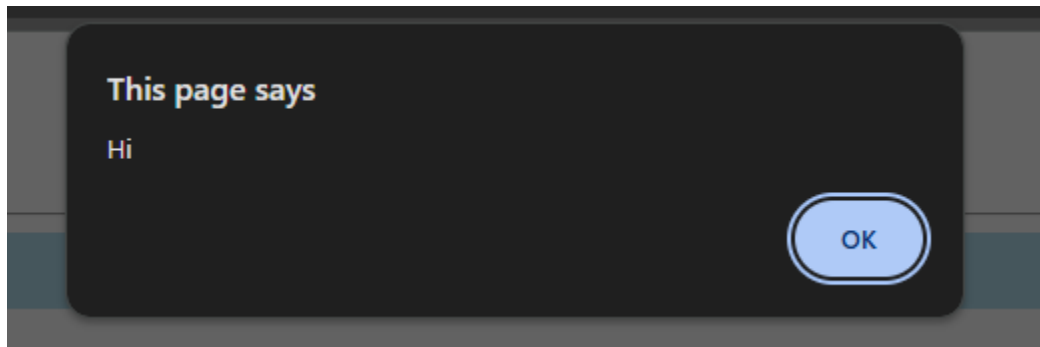
Description: Embeds JavaScript code

Common Attributes: src, type

Code Snippet:

```
<script>
  function showAlert() {
    alert('Hi');
  }
</script>
```

Output: Popup alert saying “Hi”



Influence: Adds interactivity and dynamic behavior.