Lab Report-01

Course Code:	Course Title:
CSE 416	Web Engineering Lab

Lab Report Details	
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Submitted To	Submitted By
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Experiment No: 01

Experiment Name: HTML Tags.

Objective:

The objective of this lab is to explore and understand the structure and functionality of 30 commonly used HTML tags. This includes studying their syntax, attributes, and real-world usage through code snippets. By implementing these tags in a sample webpage, students will learn how each tag contributes to the layout, content organization, and user interaction on websites, forming the foundation for effective web development.

HTML Tags Overview:

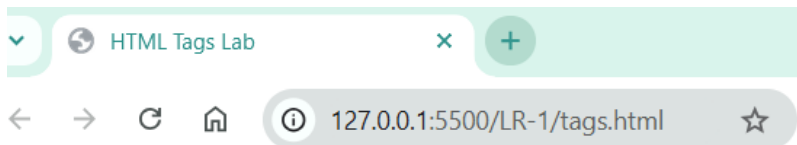| No.	Tag	Description	Common Attributes
1	<html>	Root of the HTML document.	–
2	<head>	Container for metadata and links to resources.	–
3	<title>	Sets the title of the document (browser tab).	–
4	<meta>	Defines metadata (character set, page description).	charset, name, content
5	<link>	Links to external resources (e.g., CSS files).	rel, href, type
6	<style>	Embeds internal CSS styles.	type, media
7	<body>	Main content of the HTML document.	bgcolor, text (deprecated)
8	<h1>–<h6>	Header tags, <h1> is most important.	align (deprecated)
9	<p>	Defines a paragraph.	align

10	 	Inserts a line break.	–
11	<hr>	Horizontal line.	size, width, color (deprecated)
12	<a>	Creates a hyperlink.	href, target, title
13	<img>	Displays an image.	src, alt, width, height
14	<div>	Block-level content section.	id, class, style
15	<span>	Inline content wrapper.	id, class, style
16		Unordered (bulleted) list.	type (deprecated)
17		Ordered (numbered) list.	type, start, reversed
18		List item.	value (for)
19	<table>	Creates a table.	border, cellpadding, cellspacing
20	<tr>	Table row.	–
21	<td>	Table data cell.	colspan, rowspan, align
22	<th>	Table header cell.	colspan, rowspan, scope
23	<form>	Input collection container.	action, method, name
24	<input>	Single-line input.	type, name, value, placeholder
25	<textarea>	Multi-line input field.	rows, cols, placeholder
26	<button>	Clickable button.	type, onclick, name
27	<label>	Label for a form field.	for
28	<select>	Drop-down selector.	name, multiple, required

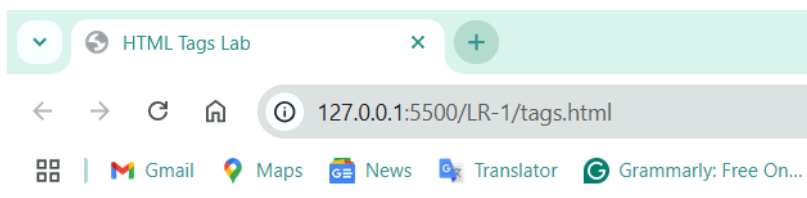| 29 | <option> | Option in a drop-down list. | value, selected, disabled |
| 30 | <iframe> | Embeds another HTML page inside the current page. | src, width, height, title |

Code Snippets and Outcomes:

1. **<title> </title>**

2. **<h1> </h1>**

Welcome to My HTML Tags Lab

This is a sample webpage demonstrating HTML tags.

3. **<p></p>**

Welcome to My HTML Tags Lab

This is a sample webpage demonstrating HTML tags.

4. <Img>

```
<img src="image/images.jpeg" alt="Logo" width="100" height="100">
```

This is a **sample webpage** demonstrating HTML tags.

5. <hr>

```
<img src="image/images.jpeg" alt="Logo" width="100" height="100">
<hr>
```


Visit Example

6. <a>

```
<a href="https://google.com" target="">Visit Google</a><br>
```

Visit Google

**7. , **

```html
<ul>
    <li>Apple</li>
    <li>Banana</li>
</ul>
<ol start="5">
    <li>Monday</li>
    <li>Tuesday</li>
</ol>
```

Lists

- Apple
- Banana

5. Monday
6. Tuesday

8. <table></table>, <tr></tr>, <td></td>

```html
<table border="1" width="50%">
    <tr>
        <th>Name</th>
        <th>Age</th>
    </tr>
    <tr>
        <td>Munna</td>
        <td>23</td>
    </tr>
</table>
```

Table

Name	Age
Munna	23

9. <label></label>, <input></input>

```html
<label for="username">Name:</label>
<input type="text" id="username" name="username" placeholder="Enter name"><br><br>
```

Name: Enter name

10. `<form></form>`

```html
<form action="submit.html" method="post">
    <label for="username">Name:</label>
    <input type="text" id="username" name="username" placeholder="Enter name"><br><br>

    <label for="message">Message:</label><br>
    <textarea rows="4" cols="30" id="message" name="message"></textarea><br><br>

    <label for="gender">Gender:</label>
    <select name="gender" id="gender">
        <option value="m">Male</option>
        <option value="f" selected>Female</option>
    </select><br><br>

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

Form

Name: Munna

Message:

Hello Biswas

Gender: Male ⌄

Submit

11. `<button></button>`

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

Gender: Male ⌄

Submit

Conclusion:

Each tag plays a critical role in web development:

- **Structural Tags** (`<html>`, `<head>`, `<body>`, `<div>`) create the skeleton.
- **Text & Media Tags** (`<h1>`, `<p>`, `<img>`) help present information clearly.
- **List & Table Tags** allow for organized data representation.
- **Form Tags** collect user input effectively.
- **Styling Tags** like `<style>`, classes, and `<span>` allow visual customization.
- **Interactive Tags** (`<a>`, `<iframe>`, `<button>`) enhance functionality.

Combining these elements provided a rich, interactive, and well-structured website, showcasing the foundation of modern web development.

References:

https://www.w3schools.com/TAGS/default.asp

https://www.geeksforgeeks.org/html-tags-a-to-z-list/

https://developer.mozilla.org/en-US/docs/Web/HTML/Reference/Elements