



## Lab Report-1

Course Code	Course Title
OCSE416	Web Engineering Lab

Report Details	
Experiment Name	HTML Tags with Description, Attributes, Code, and Output
Submission Date	25-05-2025

Submitted To	Submitted By
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**Daffodil International University**

## Tag 1: <html>

- **Description:** Serves as the root container of an HTML document, encompassing all visible and non-visible page elements.
- **Common Attributes:** lang
- **Code Snippet:**

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

- **Output:** Declares the document structure and language; not visually rendered.
- **Influence:** Serves as the container for all HTML content.

## Tag 2: <head>

- **Description:** Holds metadata, links to stylesheets, scripts, and the page's title.
- **Common Attributes:** None
- **Code Snippet:**

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

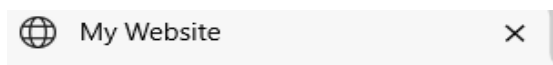
- **Output:** No direct visual output; enables the browser to load linked resources.
- **Influence:** Helps browsers and search engines understand the page.

## Tag 3: <title>

- **Description:** Sets the text shown in the browser's title/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: <meta>

- **Description:** Provides metadata such as character encoding and viewport settings.
- **Code Snippet:**  

```
<meta charset="UTF-8">
```
- **Output:** Not visible; ensures correct character display.

## Tag 5: <link>

- **Description:** Used to link external files like CSS to the HTML document.
- **Code Snippet:**  

```
<link rel="stylesheet" href="style.css">
```
- **Output:** Applies external styles to the webpage.

## Tag 6: <script>

- **Description:** Embeds or links JavaScript code for interactivity.
- **Common Attributes:** src, type
- **Code Snippet:**  

```
<script>alert("Hi from Tomalika!");</script>
```
- **Output:** Renders page content with a light blue background.



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

## Tag 7: <body>

- **Description:** Contains all elements that are visible to the user.
- **Common Attributes:** bgcolor, background, style
- **Code Snippet:**

```
<body bgcolor="lightblue">
```

- **Output:** Renders page content with a light blue background.
- **Influence:** Everything the user sees is inside <body>.

## Tag 8: <h1>

- **Description:** Denotes the most important heading on the page.
- **Common Attributes:** id, class, style

- **Code Snippet:**

```
<h1 style="color: brown;">Welcome to My Lab</h1>
```

- **Output:** Big bold “Welcome to My Lab” heading



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

## Tag 9: <h2>

- **Description:** Represents a second-level heading, typically used for subsections.

- **Code Snippet:**

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

- **Output:** Medium-size “Introduction” heading



- **Influence:** Organizes content hierarchically.

## Tag 10: <p>

- **Description:** Defines a paragraph block of text.
- **Code Snippet:**

`<p>This is a paragraph demonstrating HTML basics. Student Name: Tomalika Sarker | ID: 221-15-5341</p>`

- **Output:**

This is a paragraph demonstrating HTML basics. Student Name: Tomalika Sarker | ID: 221-15-5341

## Tag 11: `<a>`

- **Description:** Creates hyperlinks to other documents or websites.
- **Code Snippet:**  
`<a href="https://www.google.com" target="_blank" title="Go to Google">Visit Google</a>`
- **Output:**

[Visit Google](https://www.google.com)

## Tag 12: `<img>`

- **Description:** Embeds an image from a local or remote source.
- **Code Snippet:**  
``
- **Output:**

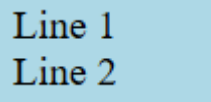


## Tag 13: `<br>`

- **Description:** Inserts a line break within content.
- **Code Snippet:**

Line 1  
Line 2

- **Output:**



Line 1  
Line 2

- **Influence:** Helps in line formatting.

## Tag 14: <hr>

- **Description:** Renders a horizontal line for content separation.
- **Code Snippet:**

```
<hr>
```

- **Output:** A horizontal rule appears across the page.



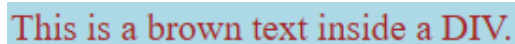
- **Influence:** Visually separates content.

## Tag 15: <div>

- **Description:** A block-level container for grouping elements.
- **Code Snippet:**

```
<div style="color:brown;">This is a brown text inside a DIV.</div>
```

- **Output:**



This is a brown text inside a DIV.

- **Influence:** Helps in layout and styling.

## Tag 16: <span>

- **Description:** An inline container used for styling text without breaking flow.
- **Code Snippet:**

```
<p>This is a <span style="color:purple;">purple</span> word using span tag.</p>
```

- **Output:**

This is a purple word using span tag.

- **Influence:** Applies styles without breaking lines.

## Tag 17: <ul>

- **Description:** Creates an unordered list of bullet points.
- **Code Snippet:**

```
<ul type="disc">  
  <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 18: <ol>

- **Description:** Constructs an ordered (numbered) list.
- **Code Snippet:**

```
<ol type="1">  
  <li>Ordered Step 1</li>  
  <li>Ordered Step 2</li>  
</ol>
```

- **Output:**

```
1. Ordered Step 1  
2. Ordered Step 2
```

- **Influence:** Helpful in instructions/steps.

## Tag 19: <li>

- **Description:** Defines each item in a list.
- **Code Snippet:**

```
<li>Ordered Step 1</li>
```

- **Output:**

1. Ordered Step 1

- **Influence:** Makes up list content.

## Tag 20: <table>

- **Description:** Creates a table for organizing content in rows and columns.
- **Common Attributes:** border, cellpadding, cellspacing
- **Code Snippet:**

```
<table border="1" cellpadding="5" cellspacing="0">
```

**Output:**

Image	Item Name	Description
	Fruit Smoothie	Mixed fruits, honey, mint

**Influence:** Organizes data in rows and columns.

## Tag 21: <tr>

- **Description:** Represents a row in a table.
- **Code Snippet:**



```

<tr>
<th>Image</th>
<th>Item Name</th>
<th>Description</th>
</tr>

```

- **Output:** A single row is added to the table layout.

Description
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- **Influence:** Used to define each row in a table.

## Tag 22: <td>

- **Description:** Represents a standard data cell within a table row.
- **Code Snippet:**

```

<tr>
<td></td>
<td>Fruit Smoothie</td>
<td>Mixed fruits, honey, mint</td>
</tr>

```

- **Output:** Displays content inside a table cell.

Description
Mixed fruits, honey, mint

- **Influence:** Holds the actual data inside a table.

## Tag 23: <th>

- **Description:** Defines a header cell in a table.
- **Code Snippet:**

```
<th>Image</th>  
<th>Item Name</th>  
<th>Description</th>
```

- **Output:** Bold and centered text in a table header.

Image	Item Name	Description
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- **Influence:** Labels columns/rows, improves readability.

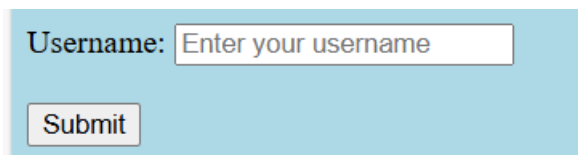
## Tag 24: <form>

- **Description:** Creates a form for user input submission.
- **Attributes:** action, method

- **Code Snippet:**

```
<form action="/submit" method="post">  
  <label for="username">Username:</label>  
  <input type="text" name="username" placeholder="Enter your username" required>  
  <br><br>  
  <button type="submit">Submit</button>  
</form>
```

- **Output:** Renders a blank form container.



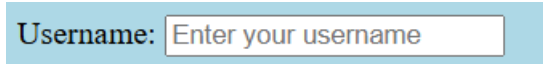
- **Influence:** Accepts user input.

## Tag 25: <label>

- **Description:** Provides a descriptive label for form inputs.
- **Code Snippet:**

```
<label for="username">Username:</label>
```

- **Output:**



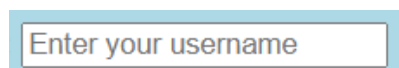
- **Influence:** Improves accessibility.

## Tag 26: <input>

- **Description:** Accepts user input in various formats like text, radio, etc.
- **Attributes:** type, name, value
- **Code Snippet:**

```
<input type="text" name="username" placeholder="Enter your username" required>
```

- **Output:** Text input box



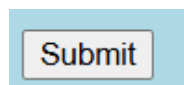
- **Influence:** Allows user to enter data.

## Tag 27: <button>

- **Description:** Adds a button element for form submission or actions.
- **Code Snippet:**

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

- **Output:**



- **Influence:** Triggers actions.

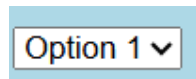
## Tag 28: < select>

- **Description:** Creates a drop-down list menu.

- **Code Snippet:**

```
<select name="dropdown">  
  <option value="1">Option 1</option>  
  <option value="2">Option 2</option>  
</select>
```

- **Output:**



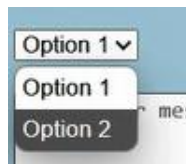
## Tag 29: <option>

- **Description:** Specifies individual options in a drop-down list.

- **Code Snippet:**

```
<option value="1">Option 1</option>  
<option value="2">Option 2</option>
```

- **Output:**



## Tag 30: < textarea>

- **Description:** Provides a field for multi-line text input.

- **Code Snippet:**

```
<textarea rows="4" cols="30" placeholder="Enter your message here...">  
</textarea>
```

- **Output:**

