Lab Report 1

Course Code: CSE416

Course Title:Web Engineering Lab

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Section :61_J1

1. **Experiment No:01**

2. **Experiment Name: Explore the Structure and Basic Elements of HTML.**

3. **Objective:**
   - To understand the basic structure of an HTML document.
   - To learn the use of HTML tags and elements.
   - To explore text formatting elements like headings, paragraphs, bold, italic, etc.
   - To practice linking and embedding media using anchor, image, audio, and video tags.
   - To understand how to create lists, tables, and forms in HTML.
   - To explore semantic elements for better webpage structure.
   - To gain hands-on experience in writing and testing HTML code in a browser.

4. **Introduction:** HTML stands for Hyper Text Markup Language, which is the core language used to structure content on the web. It organizes text, images, links, and media using tags and elements that browsers can interpret.

5. **Basic Elements:**

SI No	Code snippet	Output
1	<!DOCTYPE html>	Defines the document type as HTML5.
2	<html> </html>	Root element of an HTML document.
3	<head> <title>Anythink</title> </head>	Contains meta information (not visible on the page).
4	<title>My Sky</title>	Title shown on the browser tab.
5	<body> Page Content </body>	Displays the visible content of the webpage.
6	Main Heading	Large heading: **Main Heading**
7	This is a paragraph.	Displays a paragraph.
8	Hello Sky	Hello Sky

9	`<p>Above</p>`
	`<hr>`
	`<p>Below</p>`
		Horizontal line between texts.

10	`<b>Bold Text</b>`	Bold Text
11	`<i>Italic Text</i>`	*Italic Text*
12	`<u>Underlined Text</u>`	Underlined Text
13	`<mark>Highlighted</mark>`	Highlighted background(blue).
14	`<small>Small Text</small>`	Smaller text.
15	`<del>Deleted</del>`	Deleted
16	`<ins>Inserted</ins>`	Inserted (underlined).
17	`<strong>Strong Text</strong>`	Strong Text
18	`<em>Emphasized</em>`	*Emphasized*
19	`<a href="https://example.com">Visit Example</a>`	Clickable link → Visit Example
20	`<img src="https://via.placeholder.com/80" alt="Sample">`	Displays an 80x80 image.

21	`<ol>`
	`  <li>One</li>`
	`  <li>Two</li>`
	`</ol>`
		1. One
		2. Two

22	`<ul>`
	`  <li>Kanij </li>`
	`  <li>Fatema</li>`
	`</ul>`
		• Kanij
		• Fatema

23	`<dl>`
	`  <dt>WE</dt>`
	`  <dd>Web Engineering</dd>`
	`</dl>`
		WE-Web Engineering

24	`<table border="1">`
	
	`<tr><th>Name</th><th>Age</th></tr>`
	`  <tr><td>Alice</td><td>20</td></tr>`
	`</table>`
		A table with rows and columns.

25	`<form>`
	`  <input type="text" placeholder="Enter Name">`
	`</form>`
		Input box inside a form.

26	`<label for="name">Name:</label>` `<input type="text" id="name">`	Text label linked to input field.
27	`<textarea rows="2" cols="20">Type here...</textarea>`	Multi-line text box.

28	`<select>`
	    `<option>Option 1</option>`
	    `<option>Option 2</option>`
	`</select>`
		Dropdown menu.

29	`<audio controls>`
	  `<sourcesrc="sample.mp3"`
	`type="audio/mpeg">`
	`</audio>`
		Audio player.

30	`<video width="200" controls>`
	  `<sourcesrc="sample.mp4"`
	`type="video/mp4">`
	`</video>`
		Video player.

6. Conclusion: In this lab, we explored the structure of an HTML document HTML elements. Each element plays a unique role, from formatting text to embedding media and creating forms. These basic elements are the building blocks of all web pages and are essential for any web developer.