

**Lab Report**

**Course Title:** Web Engineering Lab

**Course Code:** CSE415

**Report No:** 01

**Report Title:** Basic HTML Tag [1-10]

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**Title:** Basic HTML Tag [1-10]

**Description:** HTML is the standard markup language for creating Web pages.

This is an Example code of Basic HTML. Let's explore the first 10 essential tags:

<!DOCTYPE html>  
<html>  
<head>  
<title>Page Title</title>  
</head>  
<body>  
  
<h1>My First Heading</h1>  
<p>My first paragraph.</p>  
  
</body>  
</html>

**1. <!DOCTYPE html>**

* **Purpose:** This declaration defines the document type as HTML5, the latest version. It should be the very first line of your HTML code.
* **Example:**

HTML

<!DOCTYPE **html**>

**2. <html>**

* **Purpose:** This tag is the root element of an HTML document. All other elements are placed within it.
* **Example:**

HTML

<!DOCTYPE **html**>

<html>

</html>

**3. <head>**

* **Purpose:** This tag contains meta information about the document, such as the title, character set, and links to external resources like stylesheets and scripts.
* **Example:**

HTML

<!DOCTYPE **html**>

<html>

<head>

<title>My Web Page</title>

<meta charset="UTF-8">

</head>

**4. <title>**

* **Purpose:** This tag defines the title of the web page, which appears in the browser tab and search engine results.
* **Example:**

HTML

<!DOCTYPE **html**>

<html>

<head>

<title>My Awesome Page</title>

<meta charset="UTF-8">

</head>

**5. <body>**

* **Purpose:** This tag contains the visible content of the web page, such as text, images, and links.
* **Example:**

HTML

<!DOCTYPE **html**>

<html>

<head>

<title>My Web Page</title>

<meta charset="UTF-8">

</head>

<body>

<h1>Welcome to my website!</h1>

<p>This is some content.</p>

</body>

**6. <h1> to <h6>**

* **Purpose:** These tags define headings of different sizes, with <h1> being the largest and <h6> being the smallest. They are used to structure the content and improve readability.
* **Example:**

HTML

<!DOCTYPE **html**>

<html>

<head>

<title>My Web Page</title>

<meta charset="UTF-8">

</head>

<body>

<h1>Main Heading</h1>

<h2>Subheading</h2>

<h3>Smaller Subheading</h3>

</body>

**7. <p>**

* **Purpose:** This tag defines a paragraph of text.
* **Example:**

HTML

<!DOCTYPE **html**>

<html>

<head>

<title>My Web Page</title>

<meta charset="UTF-8">

</head>

<body>

<p>This is a paragraph of text. It contains information about something.</p>

</body>

**8. <br>**

* **Purpose:** This tag inserts a line break, moving the subsequent content to the next line.
* **Example:**

HTML

<!DOCTYPE **html**>

<html>

<head>

<title>My Web Page</title>

<meta charset="UTF-8">

</head>

<body>

<p>This is the first line.<br>This is the second line.</p>

</body>

**9. <strong> and <em>**

* **Purpose:** These tags are used to emphasize text. <strong> makes the text bold, while <em> italicizes it.
* **Example:**

HTML

<!DOCTYPE **html**>

<html>

<head>

<title>My Web Page</title>

<meta charset="UTF-8">

</head>

<body>

<p>This is <strong>important</strong> text. This is <em>emphasized</em> text.</p>

</body>

**10. <a>**

* **Purpose:** This tag creates a hyperlink to another web page or resource.
* **Example:**

HTML

<!DOCTYPE **html**>

<html>

<head>

<title>My Web Page</title>

<meta charset="UTF-8">

</head>

<body>

<p><a href="https://www.google.com/">Click here to visit Google</a></p>

</body>

**Output:**

The output of HTML code is rendered by a web browser, displaying the content according to the defined structure and tags. For example, the code snippets above would result in a web page with a title, headings, paragraphs, emphasized text, and a hyperlink.