



Welcome to the Web Application Development with Python L-4 Training Program





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Asst. Trainer

Web Application Development with Python

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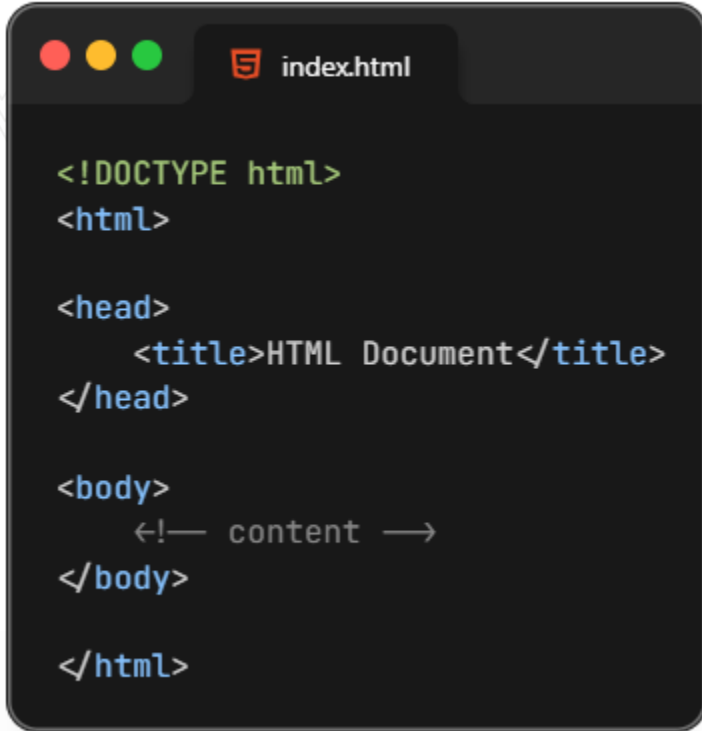
HTML
Lecture

01



All About HTML

Basic Structure of HTML Page



```
index.html

<!DOCTYPE html>
<html>

  <head>
    <title>HTML Document</title>
  </head>

  <body>
    <!-- content -->
  </body>

</html>
```

- **<!DOCTYPE html>** tag specifies that the document is an HTML5 document.
- **<html lang="en">** tag defines the document to be in English.
- **<head>** section contains metadata and the title of the webpage, which appears in the browser's title bar.
- **<body>** section contains the content that will be displayed on the webpage.

Commonly Used Tags in HTML

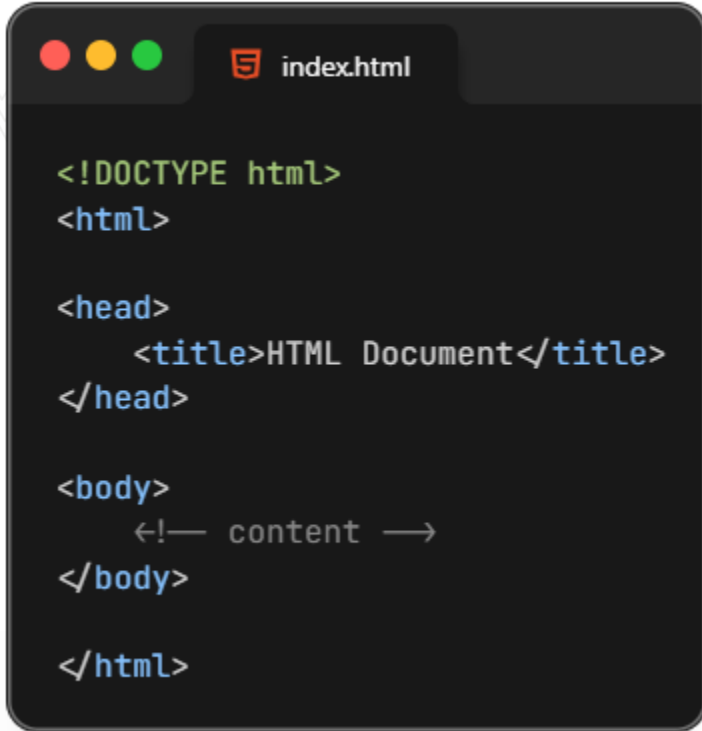


Document Structure Tags

- **<DOCTYPE html>**: Specifies the document type.
- **<html>**: Encloses the entire HTML document.
- **<head>**: Contains meta-information and links to scripts and stylesheets.
- **<body>**: Contains the content of the web page.



Document Structure of HTML Page



```
index.html

<!DOCTYPE html>
<html>

  <head>
    <title>HTML Document</title>
  </head>

  <body>
    <!-- content -->
  </body>

</html>
```

- **<!DOCTYPE html>** tag specifies that the document is an HTML5 document.
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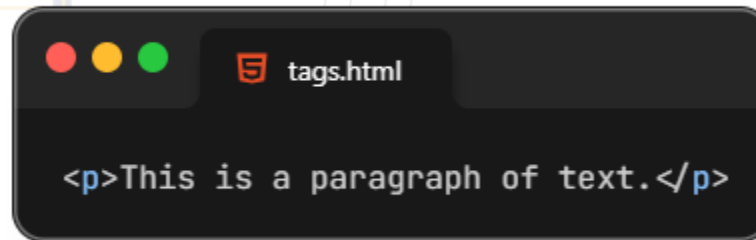
Meta Tags

- **<title> </title>**: Sets the title of the web page.
- **<meta>**: Provides metadata such as character set, author, and viewport settings.
- **<link>**: Links external resources like stylesheets.



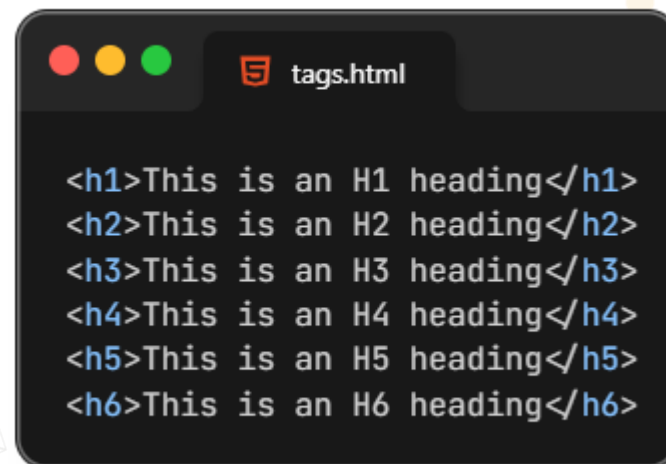
Test Formatting Tags

<p> </p>: Paragraph



```
tags.html
<p>This is a paragraph of text.</p>
```

<h1> </h1>, <h2> </h2>, <h3>, <h4> </h4>, <h5> </h5>, <h6> </h6>: Headings



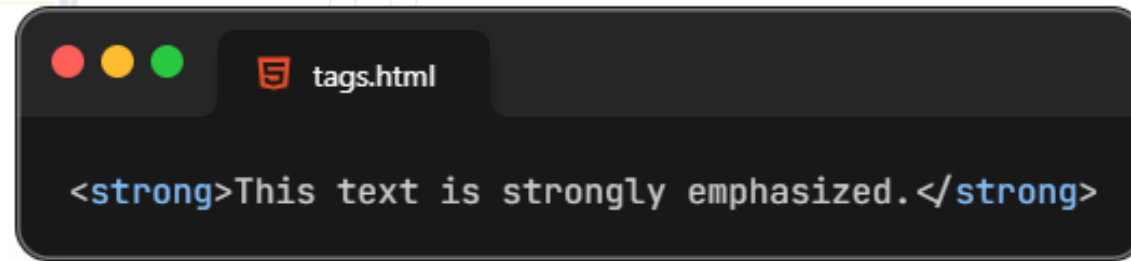
```
tags.html
<h1>This is an H1 heading</h1>
<h2>This is an H2 heading</h2>
<h3>This is an H3 heading</h3>
<h4>This is an H4 heading</h4>
<h5>This is an H5 heading</h5>
<h6>This is an H6 heading</h6>
```





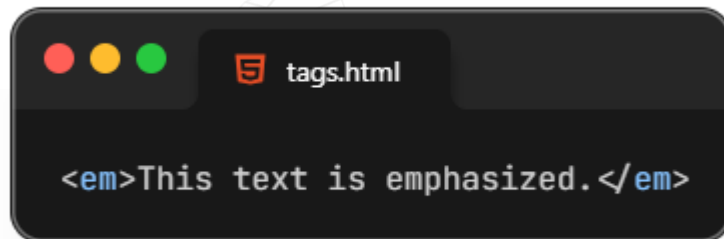
Test Formatting Tags

** **: Strong emphasis (typically bold)

A code editor window titled 'tags.html' with a dark background. It contains the HTML code: `This text is strongly emphasized.`. The code is displayed in a light blue monospace font.

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

** **: Bold

A code editor window titled 'tags.html' with a dark background. It contains the HTML code: `This text is emphasized.`. The code is displayed in a light blue monospace font.

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



Test Formatting Tags

- ``: Emphasis (typically italic)
- `<u> </u>`: Underline
- `<i> </i>`: Italic
- `
`: Line break



List Tags

` `: Unordered list.

` `: List item.



```
tags.html

<ul>
  <li>Item One</li>
  <li>Item Two</li>
  <li>Item Three</li>
</ul>
```

` `: Ordered list.



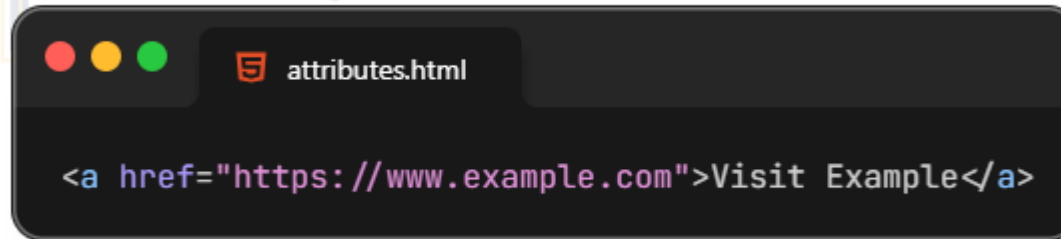
```
tags.html

<ol>
  <li>First</li>
  <li>Second</li>
  <li>Third</li>
</ol>
```



Hyperlink and Media Tags

<a>: Anchor (Creates a **hyperlink** to another web page, location, or file.)



```
attributes.html  
  
<a href="https://www.example.com">Visit Example</a>
```

****: image (Embeds an **image** into the web page.)



```
attributes.html  
  

```

Form Tags

- **<input>**: Input field
- **<textarea>**: Text area
- **<button>**: Button
- **<select>**: Dropdown list
- **<option>**: Options within a <select> or <datalist>
- **<form>**: Form



Form Tags

- **<table>**: Table
- **<tr>**: Table row
- **<td>**: Table data cell
- **<th>**: Table header cell
- **<thead>**: Table header group
- **<tbody>**: Table body group
- **<tfoot>**: Table footer group

Semantic Tags

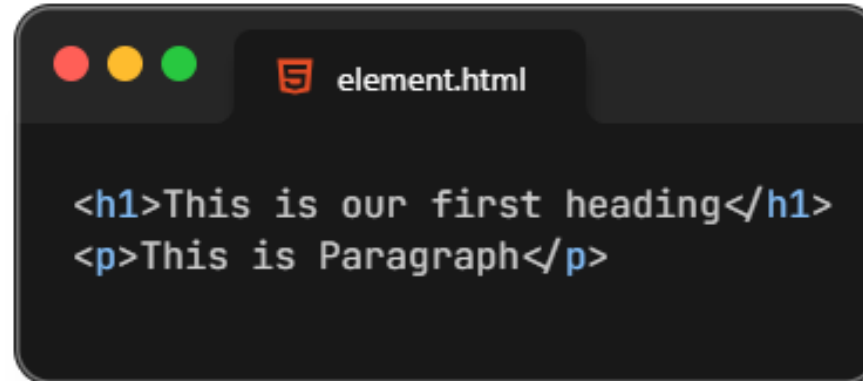
- **<header>**: Header section
- **<footer>**: Footer section
- **<article>**: Article
- **<section>**: Section
- **<nav>**: Navigation
- **<aside>**: Sidebar content

Types of HTML Elements

HTML Element?

An HTML element is a complete set that consists of a start tag (or opening tag), content, and an end tag (or closing tag).

HTML Element = Start Tag + Content + End Tag

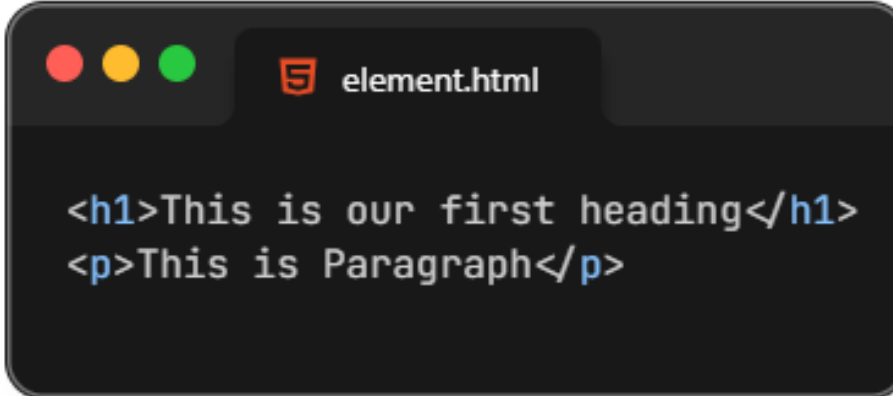
A code editor window with a dark background and a title bar showing three colored circles (red, yellow, green) and the filename 'element.html'. The code inside is written in a light blue font and consists of two lines: the first line is an opening and closing heading tag with the text 'This is our first heading' in between, and the second line is an opening and closing paragraph tag with the text 'This is Paragraph' in between.

```
<h1>This is our first heading</h1>  
<p>This is Paragraph</p>
```



Nested HTML Element

A nested HTML element is an HTML structure where one element is placed inside another element.

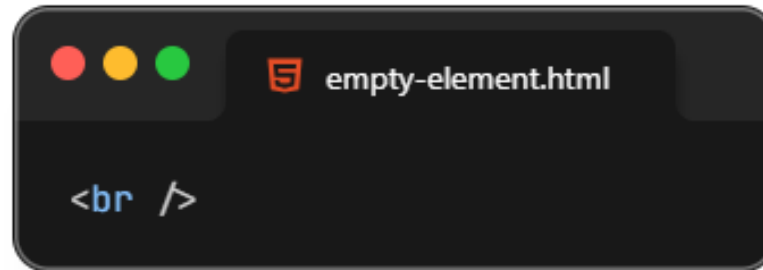
A code editor window with a dark background and a title bar containing three colored circles (red, yellow, green) and a tab labeled 'element.html'. The editor contains two lines of HTML code: the first line is a heading tag, and the second line is a paragraph tag.

```
<h1>This is our first heading</h1>  
<p>This is Paragraph</p>
```

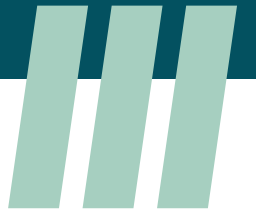


Empty HTML Element

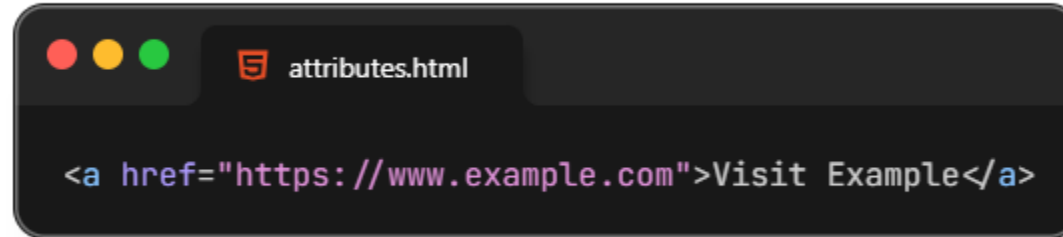
An empty HTML element is one that does not have a closing tag or content. These elements are also known as "void elements" or "self-closing elements."



Some HTML Attributes



- The **href** attribute of **<a>** specifies the URL of the page the link goes to

A code editor window titled 'attributes.html' with a dark background. It contains the following HTML code:

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

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

- The **src, alt, width and height** attribute of **** specifies the path to the image to be displayed

A code editor window titled 'attributes.html' with a dark background. It contains the following HTML code:

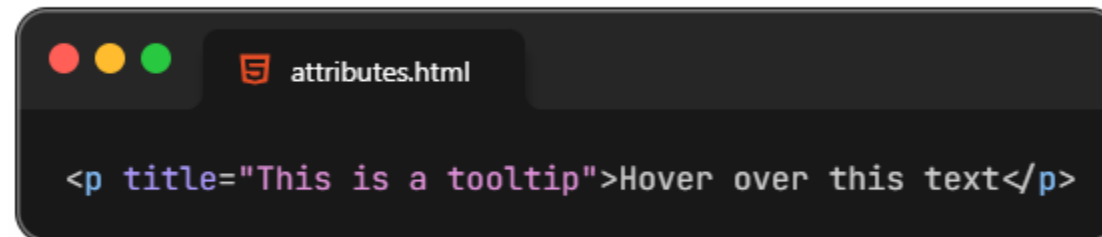
```

```

```

```

- The **title** attribute defines some extra information about an element


A code editor window titled 'attributes.html' with a dark background. It contains the following HTML code:

```
<p title="This is a tooltip">Hover over this text</p>
```

```
<p title="This is a tooltip">Hover over this text</p>
```



- The **style** attribute is used to add styles to an element, such as **color, font, size, and more**



A code editor window titled 'attributes.html' showing the following HTML code:

```
<p style="color: blue; font-size: 20px;">Styled Text</p>
```

- The **lang** attribute of the **<html>** tag declares the language of the Web page

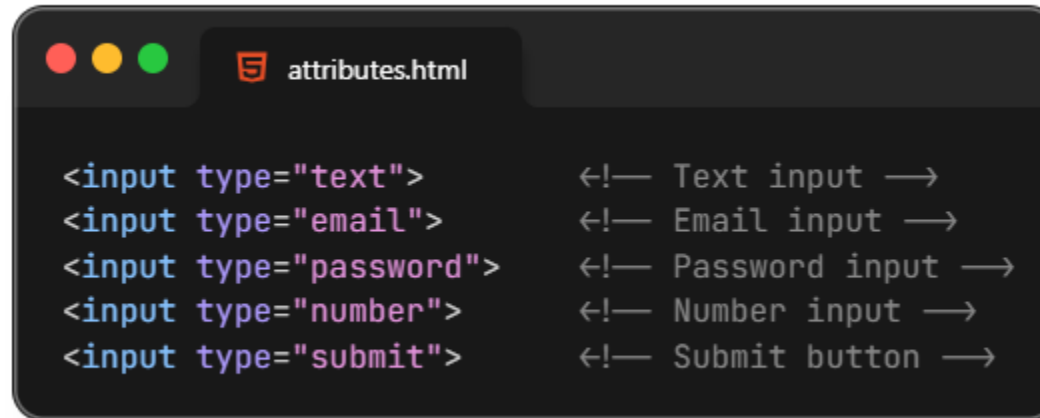


A code editor window titled 'attributes.html' showing the following HTML code:

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Language Example</title>
</head>
<body>
  <p>Hello, World!</p>
</body>
</html>
```

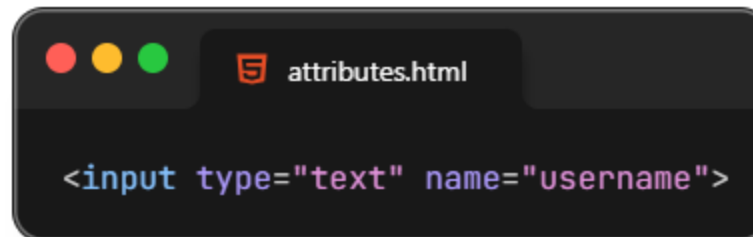


- The **type** attribute of `<input>` specifies the type of input control

A code editor window titled 'attributes.html' with a dark background. It contains five lines of HTML code, each followed by a comment. The code is:

```
<input type="text">      <!-- Text input -->
<input type="email">    <!-- Email input -->
<input type="password"> <!-- Password input -->
<input type="number">   <!-- Number input -->
<input type="submit">   <!-- Submit button -->
```

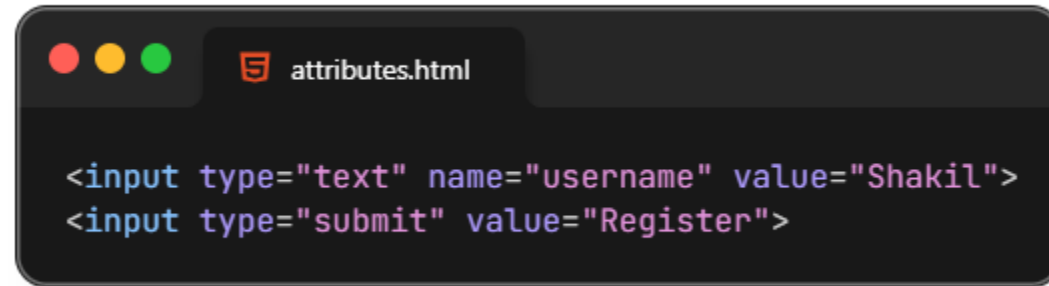
- The **name** attribute of `<input>`, `<select>`, `<textarea>` specifies the name of the input, used when submitting form data.

A code editor window titled 'attributes.html' with a dark background. It contains one line of HTML code:

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



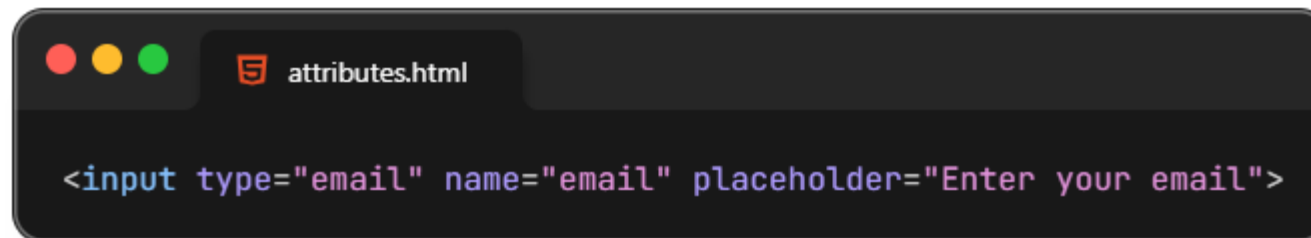
- The **value** attribute of **<input>**, **<button>** Defines the default or pre-filled value of the input or button label.



A code editor window titled 'attributes.html' with a dark background. It contains two lines of HTML code: `<input type="text" name="username" value="Shakil">` and `<input type="submit" value="Register">`. The code is color-coded with blue for tags, purple for attributes, and pink for values.

```
<input type="text" name="username" value="Shakil">
<input type="submit" value="Register">
```

- The **placeholder** attribute of **<input>**, **<textarea>** shows hint text in the input box



A code editor window titled 'attributes.html' with a dark background. It contains one line of HTML code: `<input type="email" name="email" placeholder="Enter your email">`. The code is color-coded with blue for tags, purple for attributes, and pink for values.

```
<input type="email" name="email" placeholder="Enter your email">
```





Thanks All

