Getting started with HTML

Topics Covered:

- What is HTML?
- What is HyperText?
- What is Markup?
- What are the benefits of using HTML5?
- What is the basic structure of HTML?
- How to save an HTML file?
- What is the importance of learning HTML?
- What are HTML Elements?
- How to distinguish between headings and paragraphs in HTML?
- What are void elements?
- What are nested elements?
- What are different types of elements in HTML?
- What is an attribute?
- What is a comment?
- How to apply styles in HTML?

HTML:

- HTML stands for HyperText Markup Language.
- HTML is the standard markup language used for designing web pages.
- HTML elements are represented by tags < >.
- HTML can be assisted by CSS style sheets(CSS) and scripting languages like JavaScript(JS).
- HTML was created to document pages that are displayed on the web pages. The HTML helps the browser to display text, load images, and other elements.
- HTML was created in 1993 by Tim Berners-Lee. Since then, we have had different versions of HTML that are upgraded and now the most widely used version is HTML5.
- HTML is used for creating pages that are displayed on the web pages. All the pages that we see on World Wide Web(www) are written on different versions of HTML.

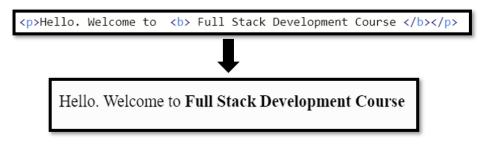
HyperText:

- The word or words that contain a link to a website is HyperText.
- The term Hypertext was coined in 1963 by Ted Nelson.
- Example:



Markup:

- A markup language uses **tags </> to define elements within a document**.
- The readable files contain standard words, rather than using typical programming syntax called Markup language.
- Example markup languages: HTML, SGML, and XML.
- Example:



Markup language

Benefits of HTML5 over other version of HTML:

- Cleaner markup,
- consistency,
- support multimedia with new tags,
- Offline application cache.

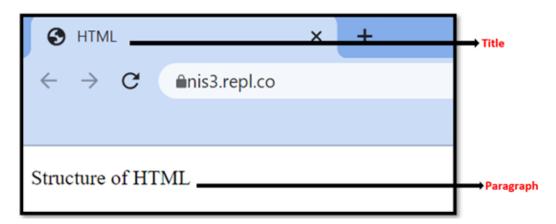
Structure of HTML:

Code:

Where,

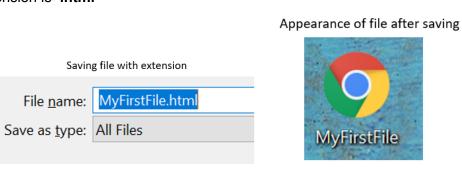
Tags	Purpose
html	Defines the document as an HTML5 document.
<html> </html>	Root element of the HTML document.
<head> </head>	Contains the information about the document
<title></title>	Specify the title that has to be shown in the browser's title bar/tab .
<body> </body>	Defines the document body, it's the container for all contents like headings, images, paragraphs, tables, lists, etc
	Defines a paragraph.

Output:



HTML File extension:

- To be recognized by the web browsers all the HTML files must have a special file extension.
- The extension is .html

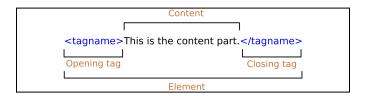


Importance of HTML:

- HTML is the foundation of all web pages.
- HTML is the beginning and basic level to start with web development.
- HTML is far easier to understand and learn.
- Almost every browser supports HTML. So it is bound to show up in all browsers regardless of where it is accessed through.

HTML Elements:

- HTML is made of elements.
- These elements are responsible for creating web pages and defining content in the web page.
- An element in HTML usually consists of a start tag <tag name>, close tag </tag name> and content inserted between them.
- Syntax:



Example:

```
Structure of HTML
```

Headings in HTML:

- **HTML** headings are titles or subtitles that you want to display on a webpage.
- There are **six** levels of headings defined by HTML.
- These 6 heading elements are H1, H2, H3, H4, H5, and H6.
- H1 being the highest level (main heading) and H6 the least level (least important heading).
- Example:

```
<!DOCTYPE html>
<html>
                                     Heading 1
  <head>
  <title>Hedings</title>
                                     Heading 2
  <body>
   <h1>Heading 1</h1>
                                     Heading 3
   <h2>Heading 2</h2>
   <h3>Heading 3</h3>
                                     Heading 4
   <h4>Heading 4</h4>
   <h5>Heading 5</h5>
                                     Heading 5
   <h6>Heading 6</h6>
  </body>
                                     Heading 6
</html>
```

Paragraphs in HTML:

- element defines a paragraph.
- browser itself adds an empty line before and after a paragraph.
- Content inside element always starts with a new line.
- Example:

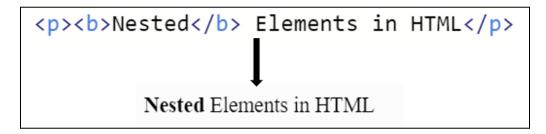
```
This element defines the paragraph in HTML
Content inside this tag will appear in a new line.
This element defines the paragraph in HTML
Content inside this tag will appear in a new line.
```

Void Elements:

- All the elements in HTML do not require a start tag and end tag.
- Some elements do not have content and end tag such elements are known as Void
 elements or empty elements.
- These elements are also called unpaired tags.
- Example:
 -
(represents a line break)
 - <hr>(represents a horizontal line)

Nested Elements:

- Elements inside other elements are called **nesting**.
- Elements nested inside other elements are called nested elements.
- Example:



Types of Elements:

There are two types of elements in HTML:

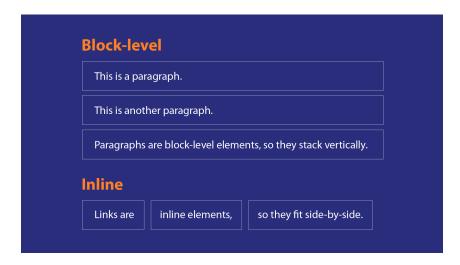
- Block level elements.
- Inline elements.

Block level elements:

- They form a visible block on a page they will appear on a new line from whatever content went before it,
- And any content that goes after it will also appear on a new line.
- **Example**: or <h1>.

Inline elements:

- Inline elements will not cause a new line to appear in the document.
- They would normally appear inside a paragraph of text.
- Example: <a> (hyperlink) or (bold).



Attributes in HTML:

- Special words which provide additional information about the elements.
- Each element or tag can have **attributes**, which defines the behavior of that element.
- Attributes should always be applied with the start tag.
- Attribute values are case sensitive. Multiple attributes can be applied to a single element.
- Example:

Comments:

- **Comments** are text notes added to the program to provide explanatory information about the source code.
- Comment is a programmer-readable explanation or annotation in the source code.
- Comment is a piece of code which is **ignored by any web browser**.
- Comments help you and others understand your code and increase code readability.
- Comments are placed in between <!-- ... --> tags.
- Example:

Styles:

- **HTML style attribute** is used to add styles to an element, such as color, font, size, and more.
- The **style** in HTML are rules for making the web-pages more **attractive**, **engaging** and **presentable**.
- The styles applied in the style attribute are known as inline styles. But applying styles in a style sheet is a good practice.
- Example:

Challenge:

With your new gained knowledge on HTML conduct further research about HTML and get

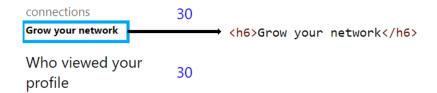
familiar with the following:

- What is the relationship between browser and HTML?
- What are the advantages of HTML5 over other versions?
- Which language is used to decorate/ style HTML elements?

Utility of today's topics in Static linkedIn page:

The basic structural elements of HTML in our final project:

- You can refer the file in the github link: https://github.com/testbook123/Full-Stack-Development.git
- Headings and paragraphs:





Void elements: