Introduction to 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?

1. HTML: *→ Combination of Hypertext & Markup Language*   *standered ↳ word wide use due to norms*
- 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).
- *Connection b/w HTML & Browser* 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.

2. 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:


```
<a href=https://www.facebook.com/>Facebook</a>
```
Hyperlink   Hypertext

HyperText

3. 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. *Not using complex Lang. — understanable words*
- Example markup languages: **HTML**, **SGML**, and **XML.**

- Example:

```
<p>Hello. Welcome to <b> Full Stack Development Course </b></p>
```

Paragraph — `<p>`
Close paragraph — `</p>`
Bold — `<b>`

↓

Hello. Welcome to **Full Stack Development Course**

Markup language

4. Benefits of HTML5 over other versions of HTML: *(Ques for Interview)*
- Cleaner markup,
- consistency,
- support multimedia with new tags,
- Offline application cache.

Boiler Plate or

5. Structure of HTML:
Code:

Direct Create

{Standered HTML Document structure}
{Visual Studio Code → ! ⊕ Enter/Tab }

```
<!DOCTYPE html>
<html>                    — open
    <head>
        <!-- title of the web page -->
        <title>HTML</title>
    </head>
    <body>
        <!-- paragraph -->
        <p>Structure of HTML</p>
    </body>
</html>                   — close
```

write & ctrl ⊕ / to change into comment

— shows comment which is ignored used only for our convinence

{ ctrl ⊕ / }

/ ← slash लगाकर Close करते है।

2

 # Metadata → A set of data that describes another data.
(used to empower browser through → SEO (Search Engine Optimization)

Where,

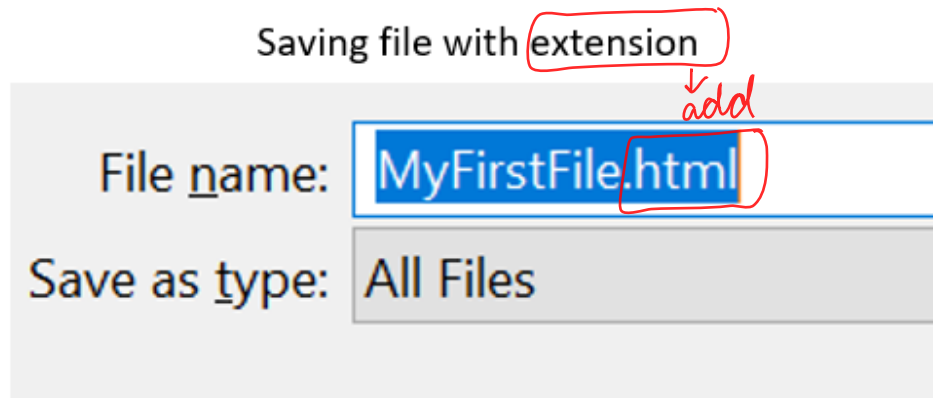| Tags → Exclamatory Sign	Purpose
<!DOCTYPE html>	Defines the document as an HTML5 document. Browser recognized → HTML Doc
<html> </html>	**Root element** of the HTML document.
<head> </head>	Contains the **information** about the document
<title></title>	Specify the title that has to be shown in the **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

← → C 🔒 nis3.repl.co

Structure of HTML ——————→ **Paragraph**

——————→ **Title**

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

Saving file with extension

add

File name: MyFirstFile.html

Save as type: All Files

Appearance of file after saving

MyFirstFile

7. 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.

8. Challenge: *Assignments*

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? → helps browser to show text pic and other elements.
- What are the advantages of HTML5 over other versions? ✓
- Which language is used to decorate/ style HTML elements? → standered Markup language