



Sheryians Coding School

Live Cohort

DAY - 8

HTML Notes

The background is a dark, textured green. Overlaid on this is a faint, stylized graphic of a hand holding a pen, oriented diagonally from the top-left towards the bottom-right. The hand is rendered in a light green color that blends with the background. The word "HTML" is written in a large, bold, white sans-serif font at the top center. Below it, the word "Notes" is written in a smaller, regular white sans-serif font. The overall aesthetic is minimalist and modern.



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HTML Notes

1. What is HTML and Why It is Required?

HTML (HyperText Markup Language) is the base of every website you see. It tells the browser how to structure and display the content. Think of it like the skeleton of a human body – without it, there's no structure.

- **HyperText:** Text that can link to other texts or resources.
- **Markup:** Special tags used to define structure and meaning of content.
- **Language:** A set of rules for writing web pages.

👉 Real-Life Example:

Creating a resume in MS Word where you add headings, paragraphs, bullet points etc. Similarly, in websites, HTML tags tell the browser: *this is a heading, this is a paragraph, this is a list.*

2. Importance & Role of HTML

1. **Structure:** Defines how text, images, links, and media are placed.
2. **Accessibility:** Helps screen readers and assistive technologies understand content.
3. **SEO:** Search engines read HTML to rank websites.
4. **Presentation:** Provides meaningful structure before CSS styles it.
5. **Universal:** Works across all devices and browsers.

HTML Notes

3. HTML Boilerplate

Before adding content, we start with a **boilerplate**. It's like laying down the foundation of a house before putting furniture inside.



```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>My First Webpage</title>
7  </head>
8  <body>
9    <!-- Content goes here -->
10 </body>
11 </html>
12
```

Explanation:

- **<!DOCTYPE html>** → Defines document type as HTML5.
- **<html lang="en">** → Root element. lang="en" means English language.
- **<head>** → Metadata (title, encoding, styles, etc).
- **<meta charset="UTF-8">** → Supports all characters (English, Hindi, emojis, etc).
- **<meta name="viewport">** → Makes site responsive on mobile.
- **<title>** → Title shown on browser tab.
- **<body>** → Everything visible on the webpage.

👉 Real-Life Example:

head is like the admin details of a building, and **body** is where people actually live.

HTML Notes

4. HTML Tags You Learned

4.1 Headings (h1 to h6)



```
1 <h1>Main Heading</h1>
2 <h2>Sub Heading</h2>
3 <h3>Smaller Heading</h3>
4
```

👉 Newspaper analogy:

Front-page headline = `<h1>`. Smaller news titles = `<h2>` or `<h3>`.

4.2 Paragraph (p)



```
1 <p>This is a paragraph with some text.</p>
2
```

👉 Like writing a paragraph in your notebook.

HTML Notes

4.3 Bold (b)



```
1 <p>This is <b>important</b> text.</p>
```

4.4 Italic (i)



```
1 <p>This is <i>italic</i> text.</p>
```

```
2
```

4.5 Underline (u)



```
1 <p>This is <u>underlined</u> text.</p>
```

```
2
```

HTML Notes

4.6 Superscript (sup)



```
1 <p>2<sup>5</sup> = 32</p>
2 <p>H<sup>2</sup>O</p>
3
```

4.7 Subscript (sub)



```
1 <p>CO<sub>2</sub> is Carbon Dioxide</p>
2
```

4.8 Lorem (Dummy Text)



```
1 <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
2
```

👉 Used when actual content is not ready.

HTML Notes

4.9 Ordered List (ol, li)



```
1 <ol>
2   <li>Wake up</li>
3   <li>Brush teeth</li>
4   <li>Go to work</li>
5 </ol>
6
```

👉 Recipe steps or instructions.

4.10 Unordered List (ul, li)



```
1 <ul>
2   <li>Apples</li>
3   <li>Bananas</li>
4   <li>Mangoes</li>
5 </ul>
6
```

👉 Grocery list.

HTML Notes

4.11 Anchor Tag (a, href, target)



```
1 <a href="https://www.google.com" target="_blank">Go to Google</a>
2
```

- href → Destination URL.
- target="_blank" → Opens in a new tab.

👉 Like clicking a “Read More” button on a website.

4.12 Comments (<!-- -->)



```
1 <!-- This is a comment -->
2 <p>Visible text here</p>
3
```

👉 Real-life analogy: Side notes in your notebook that only you can see.

4.13 Image Tag (img)

HTML Notes

- `src` → path of image.
- `alt` → alternative text (important for SEO & accessibility).

👉 Like adding your photo to your resume.

4.14 Line Break (`br`) and Horizontal Rule (`hr`)



```
1 <p>Hello<br>World</p>
2 <hr>
3
```

- `
` → Line break (new line).
- `<hr>` → Horizontal line divider.

4.15 Self-Closing Tags

Some tags do not need closing:

- ``
- `
`
- `<hr>`

HTML Notes

5. Quick Summary Table

Tag	Purpose	Example
<h1> to <h6>	Headings	<h1>Title</h1>
<p>	Paragraph	<p>Hello</p>
, <i>, <u>	Formatting	Bold
<sup>, <sub>	Superscript & Subscript	H²O, CO₂
, , 	Lists	Item
<a>	Links	Link
	Image	
 , <hr>	Break & Line	 , <hr>
<!-- -->	Comment	<!-- Note -->