**HTML INTRODUCTION**

**I ) Tags in HTML?**

**A tag is a special keyword written inside angle brackets used to define elements in HTML.  
Tags tell the browser structure + meaning of the content.**

**Example without tags (plain text):**

**Hello World,Browser shows it as simple text, no formatting.**

**Example with tags:**

**<h1>Hello World</h1>Now it becomes a big heading.**

**Without tags, browser cannot understand which part is heading, paragraph, image, etc.**

**There are two categories:**

**1) Normal / Container Tags**

**It contains opening + closing tags,Content is written inside the tags.**

**Example:**

* **<h1>This is a heading</h1>**
* **<p>This is a paragraph</p>**
* **<div>Some block content</div>**

**2) Self-Closing / Void Tags**

* **Do not have closing.They stand alone and do not wrap content.**

**Example:**

* **<br> <!-- Line break -->**
* **<hr> <!-- Horizontal line -->**
* **<img src="photo.jpg" alt="My Photo">**
* **<input type="text">**
* **<meta charset="UTF-8">**
* **<link rel="stylesheet" href="style.css">**

**In XHTML, self-closing tags are written with / like <br />, but in HTML5 just <br> is enough.**

**if we don’t use tags**

* **Browser will treat everything as plain text.No headings, no images, no links, no structure.Website will look like a Word file with plain text → unprofessional.**
* **Accessibility & SEO will fail. (Search engines can’t understand content meaning).**

**Important Tags in HTML (Must Know)**

**🔹 Document Structure Tags**

* **<!DOCTYPE html> → Declares HTML5 document.**
* **<html> → Root element.**
* **<head> → Metadata (title, CSS links, scripts).**
* **<title> → Page title (shows on browser tab).**
* **<body> → Content of page (visible to user).**

**🔹 Text Formatting Tags**

* **<h1> to <h6> → Headings.**
* **<p> → Paragraph.**
* **<b> / <strong> → Bold (strong = semantic).**
* **<i> / <em> → Italic (em = semantic).**
* **<u> → Underline.**
* **<br> → Line break (self-closing).**
* **<hr> → Horizontal rule (self-closing).**

**🔹 Media & Link Tags**

* **<img> → Image (self-closing).**
* **<a> → Hyperlink.**
* **<video> / <audio> → Multimedia.**
* **<iframe> → Embed other sites (like YouTube).**

**🔹 Form Tags**

* **<form> → Form container.**
* **<input> → Input field (self-closing).**
* **<label> → Label for input.**
* **<textarea> → Multiline input.**
* **<button> → Button.**
* **<select> + <option> → Dropdown list.**

**II) Why do we not put all content inside <head>?**

**The <head> tag is meant only for metadata like title, meta, CSS, and JavaScript includes.  
Visible content should always go inside <body>.**

**If I put this:**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<h1>Hello Naveena</h1>**

**<p>This is inside head.</p>**

**</head>**

**</html>**

**Browser still displays "Hello Naveena" and the paragraph.**

**Reason?**

**Modern browsers (Chrome, Firefox, Edge) are error-tolerant.They know many beginners make mistakes, so they try to "fix" your HTML automatically.They auto-shift your invalid tags (like <h1>, <p>) from <head> into <body> while rendering.**

**If we put content inside <head>,This can cause SEO problems, inconsistent rendering, and errors in strict validation.  
That’s why we always separate metadata in <head> and user content in <body>.**

**III )Interview Questions?**

**1)Can you explain what <!DOCTYPE> is?**

**<!DOCTYPE> is a declaration that tells the browser which version of HTML we are using.  
In HTML5, we just write <!DOCTYPE html>.  
If we skip it, browsers may render in quirks mode and page alignment will not be proper.**

**2) What is the <html> tag?  
 <html> is the root element of an HTML page.All other elements like <head> and <body> must be inside <html>.Without this, the page is incomplete.**

**3) What is the difference between <head> and <body>?  
 <head> contains metadata like title, CSS, JavaScript links.It is not visible to users directly.  
<body> contains the actual visible content like text, images, forms.**

**4) What is the root element in HTML?  
The root element is <html>.It acts like a parent for everything in the page.Both head and body must be inside it.**

**5) What are container tags and self-closing tags?  
Container tags come in pairs – they have an opening and a closing tag. Example: <p>content</p>.  
Self-closing tags don’t need a closing part. Example: <br>, <img>.**

**So container tags hold content, but self-closing tags are mostly used for line breaks, images, or meta information.**

**6) Can you show me the basic structure of an HTML page?**

**The basic HTML structure looks like this:**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<title>My First Page</title>**

**</head>**

**<body>**

**<h1>Hello World</h1>**

**<p>This is my sample page.</p>**

**</body>**

**</html>**