**1. What are Lists in HTML?**

Lists in HTML are used to **group related items together** in a structured format. There are three main types of lists:

1. **Ordered List (<ol>)** - Numbered list.
2. **Unordered List (<ul>) - Bulleted list.**
3. **Definition List (<dl>)** - Descriptive list.

**2. Ordered List (<ol>) 🔢**

Ordered lists display items in a **specific sequence** using numbers or letters.

📌 **Syntax:**

<ol>

<li>First item</li>

<li>Second item</li>

<li>Third item</li>

</ol>

✅ **Output:**

1. First item
2. Second item
3. Third item

**Customizing Ordered Lists**

You can change the numbering style using the type attribute:

<ol type="A">

<li>Item One</li>

<li>Item Two</li>

</ol>

✅ **Output:** A. Item One  
B. Item Two

**Common List Types:**

* type="1" (Default) → 1, 2, 3, ...
* type="A" → A, B, C, ...
* type="a" → a, b, c, ...
* type="I" → I, II, III, ...
* type="i" → i, ii, iii, ...

**3. Unordered List (<ul>) 🔘**

Unordered lists display items **without numbering** using bullets.

📌 **Syntax:**

<ul>

<li>Apple</li>

<li>Banana</li>

<li>Cherry</li>

</ul>

✅ **Output:**

* Apple
* Banana
* Cherry

**Customizing Bullets**

You can change bullet styles using CSS:

<ul style="list-style-type: square;">

<li>Item 1</li>

<li>Item 2</li>

</ul>

✅ **Output:** ▪ Item 1  
▪ Item 2

**Common Bullet Styles:**

* disc (default) → ● Bullet
* circle → ○ Hollow circle
* square → ▪ Square
* none → No bullets

**4. Definition List (<dl>) 📖**

Definition lists are used to define **terms and descriptions**.

📌 **Syntax:**

<dl>

<dt>HTML</dt>

<dd>HyperText Markup Language</dd>

<dt>CSS</dt>

<dd>Cascading Style Sheets</dd>

</dl>

✅ **Output:** **HTML**  
↳ HyperText Markup Language  
**CSS**  
↳ Cascading Style Sheets

**5. Nesting Lists 📝**

You can place one list inside another to create **sub-lists**.

📌 **Example:**

<ul>

<li>Fruits

<ul>

<li>Apple</li>

<li>Banana</li>

</ul>

</li>

<li>Vegetables

<ul>

<li>Carrot</li>

<li>Spinach</li>

</ul>

</li>

</ul>

✅ **Output:**

* Fruits
  + Apple
  + Banana
* Vegetables
  + Carrot
  + Spinach

**6. Styling Lists with CSS 🎨**

You can use **CSS** to change the appearance of lists.

📌 **Example:**

ul {

list-style-type: square;

color: blue;

}

🔹 This will change bullets to squares and text color to blue.

**7. Creating a Navigation Bar Using Lists 🏠**

Navigation menus in websites are often created using unordered lists (<ul>).

📌 **Example:**

<ul style="list-style: none; display: flex; gap: 15px;">

<li><a href="#">Home</a></li>

<li><a href="#">About</a></li>

<li><a href="#">Services</a></li>

<li><a href="#">Contact</a></li>

</ul>

✅ **Output:** A simple horizontal navigation bar with links.

**CSS to Style the Navigation Bar**

ul {

list-style-type: none;

padding: 0;

margin: 0;

background-color: #333;

overflow: hidden;

}

ul li {

float: left;

}

ul li a {

display: block;

color: white;

text-align: center;

padding: 14px 16px;

text-decoration: none;

}

ul li a:hover {

background-color: #111;

}

🔹 This will create a **styled navigation bar** with hover effects.