Prog-1. **Lists, Links and Images**

a. Write a HTML program, to explain the working of lists. Note: It should have an ordered list, unordered list, nested lists and ordered list in an unordered list and definition lists.

b. Write a HTML program, to explain the working of hyperlinks using <a> tag and href, target Attributes.

c. Create a HTML document that has your image and your friend's image with a specific height and width. Also, when clicked on the images it should navigate to their respective profiles.

d. Write a HTML program, in such a way that, rather than placing large images on a page, the preferred technique is to use thumbnails by setting the height and width parameters to something like to 100\* 100 pixels. Each thumbnail image is also a link to a full-sized version of the image. Create an image gallery using this technique.

**✅ Basic HTML Tutorial**

**📌 What is HTML?**

HTML (HyperText Markup Language) is the standard language used to create and design web pages.

**🛠️ Basic HTML Structure:**

html

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<!DOCTYPE html>

<html>

<head>

<title>Page Title</title>

</head>

<body>

<h1>Main Heading</h1>

<p>This is a paragraph.</p>

</body>

</html>

* <html>: Root tag of HTML.
* <head>: Metadata like title and links to styles/scripts.
* <body>: Visible content like text, images, links, etc.

**✅ 1. Lists, Links and Images**

**🔷 (a) HTML Program – Lists (Ordered, Unordered, Nested, Definition)**

**✅ Code:**

html

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<!DOCTYPE html>

<html>

<head>

<title>HTML Lists Example</title>

</head>

<body>

<h1>HTML List Types</h1>

<h2>Ordered List</h2>

<ol>

<li>Introduction</li>

<li>Chapter 1</li>

<li>Conclusion</li>

</ol>

<h2>Unordered List</h2>

<ul>

<li>Apples</li>

<li>Bananas</li>

<li>Cherries</li>

</ul>

<h2>Nested List (Unordered inside Ordered)</h2>

<ol>

<li>Frontend

<ul>

<li>HTML</li>

<li>CSS</li>

</ul>

</li>

<li>Backend</li>

</ol>

<h2>Ordered List inside Unordered List</h2>

<ul>

<li>Steps:

<ol>

<li>Login</li>

<li>Fill Form</li>

<li>Submit</li>

</ol>

</li>

</ul>

<h2>Definition List</h2>

<dl>

<dt>HTML</dt>

<dd>HyperText Markup Language</dd>

<dt>CSS</dt>

<dd>Cascading Style Sheets</dd>

</dl>

</body>

</html>

**✅ Output:**

You will see different types of lists with bullets, numbers, nesting, and definitions.

**🔷 (b) HTML Program – Hyperlinks using <a>, href, target**

**✅ Code:**

html

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<!DOCTYPE html>

<html>

<head>

<title>Hyperlinks Example</title>

</head>

<body>

<h1>Working with Hyperlinks</h1>

<!-- Basic link -->

<p>Visit <a href="https://www.google.com">Google</a></p>

<!-- Open in a new tab -->

<p>Visit <a href="https://www.wikipedia.org" target="\_blank">Wikipedia (New Tab)</a></p>

<!-- Same tab -->

<p>Visit <a href="https://www.openai.com" target="\_self">OpenAI (Same Tab)</a></p>

</body>

</html>

**✅ Output:**

Clicking the links will take you to the specified websites. target="\_blank" opens it in a new tab.

**🔷 (c) HTML Document with Images Linked to Profiles**

**✅ Code:**

html

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<!DOCTYPE html>

<html>

<head>

<title>Profile Images</title>

</head>

<body>

<h1>My Friends and Me</h1>

<!-- Your image -->

<a href="https://www.linkedin.com/in/yourprofile" target="\_blank">

<img src="your-image.jpg" alt="My Photo" width="150" height="150">

</a>

<!-- Friend's image -->

<a href="https://www.linkedin.com/in/friendprofile" target="\_blank">

<img src="friend-image.jpg" alt="Friend Photo" width="150" height="150">

</a>

</body>

</html>

**✅ Output:**

Two images shown (yours and friend’s), each linking to respective profile when clicked.

**🔷 (d) HTML Image Gallery with Thumbnails**

**✅ Code:**

html

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<!DOCTYPE html>

<html>

<head>

<title>Thumbnail Image Gallery</title>

</head>

<body>

<h1>My Image Gallery</h1>

<!-- Thumbnail 1 -->

<a href="full1.jpg" target="\_blank">

<img src="thumb1.jpg" alt="Image 1" width="100" height="100">

</a>

<!-- Thumbnail 2 -->

<a href="full2.jpg" target="\_blank">

<img src="thumb2.jpg" alt="Image 2" width="100" height="100">

</a>

<!-- Thumbnail 3 -->

<a href="full3.jpg" target="\_blank">

<img src="thumb3.jpg" alt="Image 3" width="100" height="100">

</a>

</body>

</html>

**📌 Folder Structure Example:**

matlab

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gallery.html

thumb1.jpg

thumb2.jpg

thumb3.jpg

full1.jpg

full2.jpg

full3.jpg

**✅ Output:**

* 3 thumbnail images (100x100 pixels).
* Clicking a thumbnail opens the full-sized image in a new tab.