

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
CopyEdit
<!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.
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☒ 1. Lists, Links and Images

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

☒ Code:

```
html
CopyEdit
<!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>
```

```

        </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
CopyEdit
<!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
CopyEdit
<!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">
    
  </a>

  <!-- Friend's image -->
  <a href="https://www.linkedin.com/in/friendprofile" target="_blank">
    
  </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
CopyEdit
<!DOCTYPE html>
<html>
<head>
  <title>Thumbnail Image Gallery</title>
</head>
<body>
```

```
<h1>My Image Gallery</h1>

<!-- Thumbnail 1 -->
<a href="full1.jpg" target="_blank">
  
</a>

<!-- Thumbnail 2 -->
<a href="full2.jpg" target="_blank">
  
</a>

<!-- Thumbnail 3 -->
<a href="full3.jpg" target="_blank">
  
</a>
</body>
</html>
```

Folder Structure Example:

```
matlab
CopyEdit
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.