

Experiments-1:

Aim:

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.

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>HTML Lists Example</title>
</head>
<body>

  <h1>HTML Lists Demonstration</h1>

  <h2>1. Ordered List</h2>
  <p>An ordered list is a list where each item is numbered:</p>
  <ol>
    <li>First item</li>
    <li>Second item</li>
    <li>Third item</li>
  </ol>

  <h2>2. Unordered List</h2>
  <p>An unordered list is a list where each item is marked with a bullet point:</p>
  <ul>
    <li>Item A</li>
    <li>Item B</li>
    <li>Item C</li>
  </ul>

  <h2>3. Nested Lists</h2>
  <p>A nested list is a list inside another list:</p>
  <ul>
    <li>Main item 1
      <ul>
        <li>Subitem 1a</li>
        <li>Subitem 1b</li>
      </ul>
    </li>
  </ul>
```

```
<li>Main item 2
  <ol>
    <li>Subitem 2a</li>
    <li>Subitem 2b</li>
  </ol>
</li>
</ul>
```

<h2>4. Ordered List in an Unordered List</h2>

<p>An ordered list inside an unordered list:</p>

```
<ul>
  <li>Unordered item 1
    <ol>
      <li>Ordered item 1.1</li>
      <li>Ordered item 1.2</li>
    </ol>
  </li>
  <li>Unordered item 2
    <ol>
      <li>Ordered item 2.1</li>
      <li>Ordered item 2.2</li>
    </ol>
  </li>
</ul>
```

<h2>5. Definition List</h2>

<p>A definition list is used to define terms and descriptions:</p>

```
<dl>
  <dt>HTML</dt>
  <dd>HyperText Markup Language used to create webpages.</dd>
  <dt>CSS</dt>
  <dd>Cascading Style Sheets used for styling webpages.</dd>
  <dt>JavaScript</dt>
  <dd>Programming language used to create interactive effects on webpages.</dd>
</dl>
```

</body>

</html>

Output:-

Ordered List: 1. First item 2. Second item 3. Third item

Unordered List: Bullet points for "Item A," "Item B," "Item C."

Nested Lists: A mix of unordered and ordered lists within the same list item.

Ordered List in Unordered List: An unordered list with an ordered list as a sublist.

Definition List: A list of terms and their respective descriptions (HTML, CSS, JavaScript).

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

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>HTML Hyperlinks Example</title>
</head>
<body>

  <h1>HTML Hyperlinks Example</h1>

  <h2>1. Basic Hyperlink</h2>
  <p>This is a basic hyperlink to an external webpage:</p>
  <a href="https://www.example.com">Visit Example Website</a>

  <h2>2. Hyperlink with Target Attribute (Open in New Tab)</h2>
  <p>Clicking this link will open the page in a new tab:</p>
  <a href="https://www.example.com" target="_blank">Visit Example Website (New Tab)</a>

  <h2>3. Hyperlink to an Anchor within the Same Page</h2>
  <p>This link will jump to a section further down the page:</p>
  <a href="#section2">Go to Section 2</a>

  <h2>4. Hyperlink to a Specific Section on Another Page</h2>
  <p>This link will navigate to a specific section (if the page supports it):</p>
  <a href="https://www.example.com#section">Visit Example Website - Section</a>

  <h2>5. Hyperlink to Email</h2>
  <p>Clicking this link will open your email client with a new email to the specified address:</p>
  <a href="mailto:someone@example.com">Send an Email to Someone</a>

  <h2 id="section2">Section 2: Hyperlink to Anchor within Same Page</h2>
  <p>This is the section you jumped to when you clicked the link above.</p>

</body>
</html>
```

Output:-

Basic Hyperlink: Clicking "Visit Example Website" takes you to the external URL

<https://www.example.com>.

Target Attribute: The second link opens the external site in a new tab.

Anchor Link: The link "Go to Section 2" takes you to the section on the same page with `id="section2"`.

Email Link: Clicking the email link opens the default email client with the recipient's email address pre-filled.

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.

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Image Hyperlinks Example</title>
</head>
<body>

  <h1>Image Links to Profiles</h1>

  <h2>My Profile</h2>
  <p>Click on my image to visit my profile:</p>
  <a href="https://www.example.com/myprofile" target="_blank">
    
  </a>

  <h2>My Friend's Profile</h2>
  <p>Click on my friend's image to visit their profile:</p>
  <a href="https://www.example.com/friendsprofile" target="_blank">
    
  </a>

</body>
</html>
```

Output:-

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

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Image Gallery with Thumbnails</title>
  <style>
    /* Style for the gallery */
    .gallery {
      display: flex;
      flex-wrap: wrap;
    }

    .gallery a {
      margin: 10px;
      border: 2px solid #ccc;
      padding: 5px;
    }

    .gallery img {
      width: 100px;
      height: 100px;
      transition: transform 0.3s ease;
    }

    .gallery img:hover {
      transform: scale(1.1);
    }
  </style>
</head>
<body>

  <h1>Image Gallery</h1>
  <p>Click on any thumbnail to view the full-size image.</p>

  <div class="gallery">
    <a href="fullsize1.jpg" target="_blank">
      
    </a>
  </div>
</body>
</html>
```

```
</a>
<a href="fullsize2.jpg" target="_blank">
  
</a>
<a href="fullsize3.jpg" target="_blank">
  
</a>
<a href="fullsize4.jpg" target="_blank">
  
</a>
<a href="fullsize5.jpg" target="_blank">
  
</a>
</div>
```

```
</body>
```

```
</html>
```

Output:-