

Module 2 – Mernstack – HTML

1) HTML Basics

Lab Assignment

- Task:

Create a simple HTML webpage that includes:

- A header (), footer (), main section (), and aside section ()
- A paragraph with some basic text.
- A list (both ordered and unordered).
- A link that opens in a new tab.

Ans:

Demo.html

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>My Simple Webpage</title>
```

```
  </head>
```

```
  <body>
```

```
    <header>
```

```
      <h1>Welcome to My Page</h1>
```

```
    </header>
```

```
    <aside>
```

```
      <p>This is the aside section (like a sidebar).</p>
```

```
    </aside>
```

```
    <main>
```

```
<p>This is a paragraph with some basic text.</p>
```

```
<h2>Ordered List</h2>
```

```
<ol>
```

```
<li>First item</li>
```

```
<li>Second item</li>
```

```
</ol>
```

```
<h2>Unordered List</h2>
```

```
<ul>
```

```
<li>Apple</li>
```

```
<li>Banana</li>
```

```
</ul>
```

```
<a href="https://www.example.com" target="_blank">Visit Example</a>
```

```
</main>
```

```
<footer>
```

```
<p>&copy; 2025 My Website</p>
```

```
</footer>
```

```
</body>
```

```
</html>
```

2) HTML Forms

Lab Assignment

- Task:

Create a contact form with the following fields:

- Full name (text input)
- Email (email input)
- Phone number (tel input)
- Subject (dropdown menu)
- Message (textarea)
- Submit button

Additional Requirements:

- Use appropriate form validation using required, minlength, maxlength, and pattern.
- Link form labels with their corresponding inputs using the for attribute.

Ans:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Contact Form</title>
```

```
</head>
```

```
<body>
```

```
<h2>Contact Us</h2>
```

```
<form>
```

```
<!-- Full Name -->
```

```
<label for="name">Full Name:</label>
```

```
<input type="text" id="name" name="name" required minlength="3"
maxlength="30"><br><br>
```

```
<!-- Email -->
```

```
<label for="email">Email:</label>
```

```
<input type="email" id="email" name="email" required><br><br>
```

```
<!-- Phone Number -->
```

```
<label for="phone">Phone:</label>
```

```
<input type="tel" id="phone" name="phone" required pattern="[0-9]{10}"  
placeholder="10-digit number"><br><br>
```

```
<!-- Subject Dropdown -->
```

```
<label for="subject">Subject:</label>
```

```
<select id="subject" name="subject" required>
```

```
<option value="">--Select--</option>
```

```
<option value="help">Help</option>
```

```
<option value="feedback">Feedback</option>
```

```
<option value="other">Other</option>
```

```
</select><br><br>
```

```
<!-- Message -->
```

```
<label for="message">Message:</label><br>
```

```
<textarea id="message" name="message" rows="4" cols="30" required  
minlength="10" maxlength="300"></textarea><br><br>
```

```
<!-- Submit Button -->
```

```
<button type="submit">Submit</button>
```

```
</form>
```

```
</body>
```

```
</html>
```

3) HTML Tables

Lab Assignment

- Task:

Create a product catalog table that includes the following columns:

- Product Name
- Product Image (use placeholder image URLs)
- Price
- Description
- Availability (in stock, out of stock)

Additional Requirements:

- Use thead for the table header.
- Add a border and some basic styling using inline CSS.
- Use colspan or rowspan to merge cells where applicable.

Ans:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Product Catalog</title>
```

```
</head>
```

```
<body>
```

```
<h2>Product Catalog</h2>
```

```
<table border="1" style="border-collapse: collapse; width: 100%">
```

```
<thead style="background-color: #f2f2f2">
```

```
<tr>
```

```
<th>Product Name</th>
```

```
<th>Image</th>
```

```
<th>Price</th>
```

```
<th>Description</th>
```

```

        <th>Availability</th>

    </tr>

</thead>

<tr>

    <td rowspan="2">Smartphone</td>

    <td>

        

    </td>

    <td>$299</td>

    <td>Compact and powerful</td>

    <td>In Stock</td>

</tr>

<tr>

    <td>

        

    </td>

```

```
<td>$349</td>

<td>High performance model</td>

<td>Out of Stock</td>

</tr>


<tr>

<td>Laptop</td>

<td>



</td>

<td>$799</td>

<td>Lightweight, 14-inch display</td>

<td>In Stock</td>

</tr>

</table>

</body>

</html>
```