**Assignment 1: Implement a navigation bar using an unordered list with links to different sections of your HTML page. Use CSS to style the list as a horizontal menu and highlight the current page or section.**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Navigation Bar Example</title>

<link rel="stylesheet" href="styles.css">

<style>

body {

font-family: Arial, sans-serif;

}

header {

background-color: #333;

padding: 10px 0;

}

.navbar {

list-style: none;

margin: 0;

padding: 0;

display: flex;

justify-content: center;

}

.navbar li {

margin: 0 15px;

}

.navbar a {

text-decoration: none;

color: white;

padding: 10px 20px;

display: block;

transition: background-color 0.3s;

}

.navbar a:hover {

background-color: #575757;

}

.navbar a.active {

background-color: #575757;

border-radius: 4px;

}

section {

padding: 50px;

text-align: center;

}

section:nth-of-type(odd) {

background-color: #f4f4f4;

}

</style>

</head>

<body>

<header>

<nav>

<ul class="navbar">

<li><a href="#home" class="active">Home</a></li>

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

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

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

</ul>

</nav>

</header>

<section id="home">

<h1>Home Section</h1>

<p>Welcome to the home section.</p>

</section>

<section id="about">

<h1>About Section</h1>

<p>Welcome to the about section.</p>

</section>

<section id="services">

<h1>Services Section</h1>

<p>Welcome to the services section.</p>

</section>

<section id="contact">

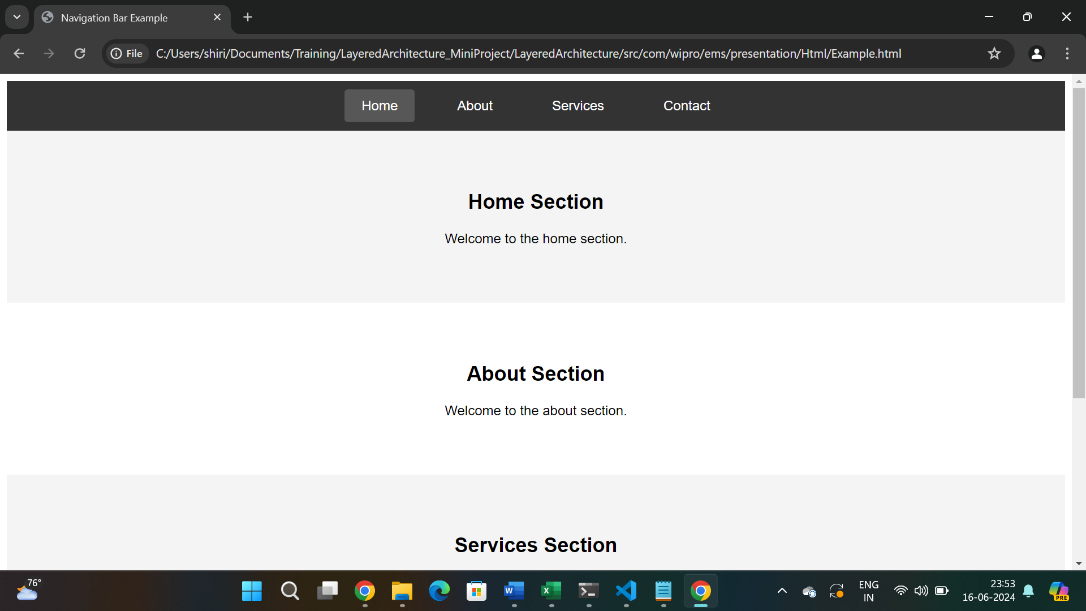
<h1>Contact Section</h1>

<p>Welcome to the contact section.</p>

</section>

</body>

</html>



Assignment 2: Create a simple HTML page that includes the use of headings, paragraphs, and at least two semantic tags like <article> or <section>. Add a table with data of your choice and a form with fields for a user's name, email, and a submit button.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Simple HTML Page</title>

<style>

body {

font-family: Arial, sans-serif;

line-height: 1.6;

margin: 20px;

}

header, footer {

background-color: #333;

color: white;

text-align: center;

padding: 10px 0;

}

article, section {

margin-bottom: 20px;

}

table {

width: 100%;

border-collapse: collapse;

margin: 20px 0;

}

table, th, td {

border: 1px solid black;

}

th, td {

padding: 10px;

text-align: left;

}

form {

max-width: 400px;

margin: 0 auto;

padding: 10px;

border: 1px solid #ccc;

border-radius: 5px;

}

form div {

margin-bottom: 10px;

}

form label {

display: block;

margin-bottom: 5px;

}

form input[type="text"], form input[type="email"] {

width: 100%;

padding: 8px;

box-sizing: border-box;

}

form input[type="submit"] {

background-color: #333;

color: white;

border: none;

padding: 10px;

cursor: pointer;

}

form input[type="submit"]:hover {

background-color: #575757;

}

</style>

</head>

<body>

<header>

<h1>Welcome to My Simple HTML Page</h1>

</header>

<article>

<h2>Introduction</h2>

<p>This is a simple HTML page that demonstrates the use of various HTML elements, including headings, paragraphs, semantic tags, tables, and forms. The goal is to create a structured and organized web page.</p>

</article>

<section>

<h2>Table Example</h2>

<p>Below is a table that contains some sample data:</p>

<table>

<tr>

<th>Item</th>

<th>Quantity</th>

<th>Price</th>

</tr>

<tr>

<td>Apples</td>

<td>10</td>

<td>$1.00</td>

</tr>

<tr>

<td>Oranges</td>

<td>5</td>

<td>$0.80</td>

</tr>

<tr>

<td>Bananas</td>

<td>7</td>

<td>$0.50</td>

</tr>

</table>

</section>

<section>

<h2>Contact Form</h2>

<p>Please fill out the form below to contact us:</p>

<form action="#" method="post">

<div>

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

<input type="text" id="name" name="name" required>

</div>

<div>

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

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

</div>

<div>

<input type="submit" value="Submit">

</div>

</form>

</section>

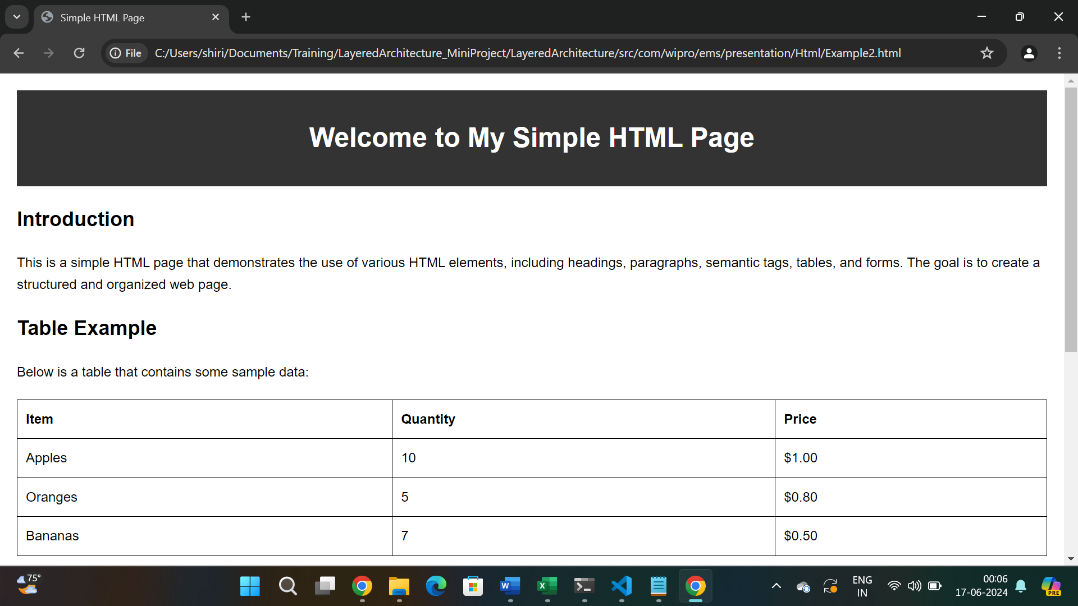
<footer>

<p>&copy; 2024 My Simple HTML Page</p>

</footer>

</body>

</html>



Assignment 3: Apply the CSS box model to ensure that your page content has appropriate margins and padding. Create a layout using div tags and style them to arrange content in a multi-column format using floats or flexbox.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Multi-Column Layout with Flexbox</title>

<link rel="stylesheet" href="styles.css">

<style>

body {

font-family: Arial, sans-serif;

line-height: 1.6;

margin: 0;

padding: 0;

}

header, footer {

background-color: #333;

color: white;

text-align: center;

padding: 10px 0;

}

.container {

display: flex;

flex-wrap: wrap;

margin: 20px;

}

.column {

background-color: #f4f4f4;

margin: 10px;

padding: 20px;

box-sizing: border-box;

flex: 1;

min-width: 200px;

}

.sidebar {

order: 1;

}

.main-content {

order: 2;

flex: 2;

}

.extra-content {

order: 3;

}

@media (max-width: 768px) {

.container {

flex-direction: column;

}

}

footer {

padding: 10px;

background-color: #333;

color: white;

text-align: center;

}

</style>

</head>

<body>

<header>

<h1>Multi-Column Layout Example</h1>

</header>

<div class="container">

<div class="column sidebar">

<h2>Sidebar</h2>

<p>This is the sidebar content. It could include links, additional information, or advertisements.</p>

</div>

<div class="column main-content">

<h2>Main Content</h2>

<p>Hey hi</p>

<p>Hello </p>

</div>

<div class="column extra-content">

<h2>Extra Content</h2>

<p>This is the extra content area.</p>

</div>

</div>

<footer>

<p>&copy; Layout Example</p>

</footer>

</body>

</html>

