

# Assignment-1

## HTML,CSS & JavaScript

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**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">
</head>
<body>
  <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>

  <section id="home">
    <h1>Home</h1>
    <p>Welcome to the home section.</p>
  </section>

  <section id="about">
    <h1>About</h1>
    <p>This is the about section.</p>
  </section>

  <section id="services">
    <h1>Services</h1>
    <p>Details about our services.</p>
  </section>
```

```
<section id="contact">
  <h1>Contact</h1>
  <p>Get in touch with us.</p>
</section>
</body>
</html>
```

```
/* styles.css */
```

```
body {
  font-family: Arial, sans-serif;
}
```

```
nav {
  background-color: #333;
  overflow: hidden;
}
```

```
.navbar {
  list-style-type: none;
  margin: 0;
  padding: 0;
  display: flex;
}
```

```
.navbar li {
  float: left;
}
```

```
.navbar li a {
  display: block;
  color: white;
  text-align: center;
  padding: 14px 20px;
  text-decoration: none;
}
```

```
.navbar li a:hover {
  background-color: #111;
}
```

```
.navbar li a.active {
  background-color: #4CAF50;
```

```
}
```

```
section {  
  padding: 60px;  
  margin: 40px 0;  
}
```

```
section h1 {  
  margin-bottom: 20px;  
}
```

### Output:

- [Home](#)
- [About](#)
- [Services](#)
- [Contact](#)

## Home

Welcome to the home section.

## About

This is the about section.

## Services

Details about our services.

## Contact

Get in touch with us.

**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;
    margin: 0;
    padding: 0;
}

header, footer {
    background-color: #333;
    color: white;
    text-align: center;
    padding: 1em 0;
}

main {
    padding: 20px;
}

table {
    width: 100%;
    border-collapse: collapse;
    margin: 20px 0;
}

table, th, td {
    border: 1px solid #ddd;
}

th, td {
    padding: 12px;
    text-align: left;
}

th {
    background-color: #f2f2f2;
}

form {
```

```
        margin-top: 20px;
    }
    label, input {
        display: block;
        margin: 8px 0;
    }
</style>
</head>
<body>

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

<main>
    <section>
        <h2>About This Page</h2>
        <p>This page demonstrates the use of various HTML elements including headings, paragraphs, semantic tags, a table, and a form.</p>
    </section>

    <article>
        <h2>Data Table</h2>
        <p>The table below contains sample data:</p>
        <table>
            <thead>
                <tr>
                    <th>Name</th>
                    <th>Age</th>
                    <th>Occupation</th>
                </tr>
```

```
</thead>

<tbody>

  <tr>

    <td>Josh</td>

    <td>23</td>

    <td>Software Engineer</td>

  </tr>

  <tr>

    <td>Muthahar</td>

    <td>22</td>

    <td>Graphic Designer</td>

  </tr>

  <tr>

    <td>Sweety</td>

    <td>31</td>

    <td>Project Manager</td>

  </tr>

</tbody>

</table>

</article>
```

```
<section>

  <h2>Contact Form</h2>

  <form>

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

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

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

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

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

```
</form>

</section>

</main>


<footer>

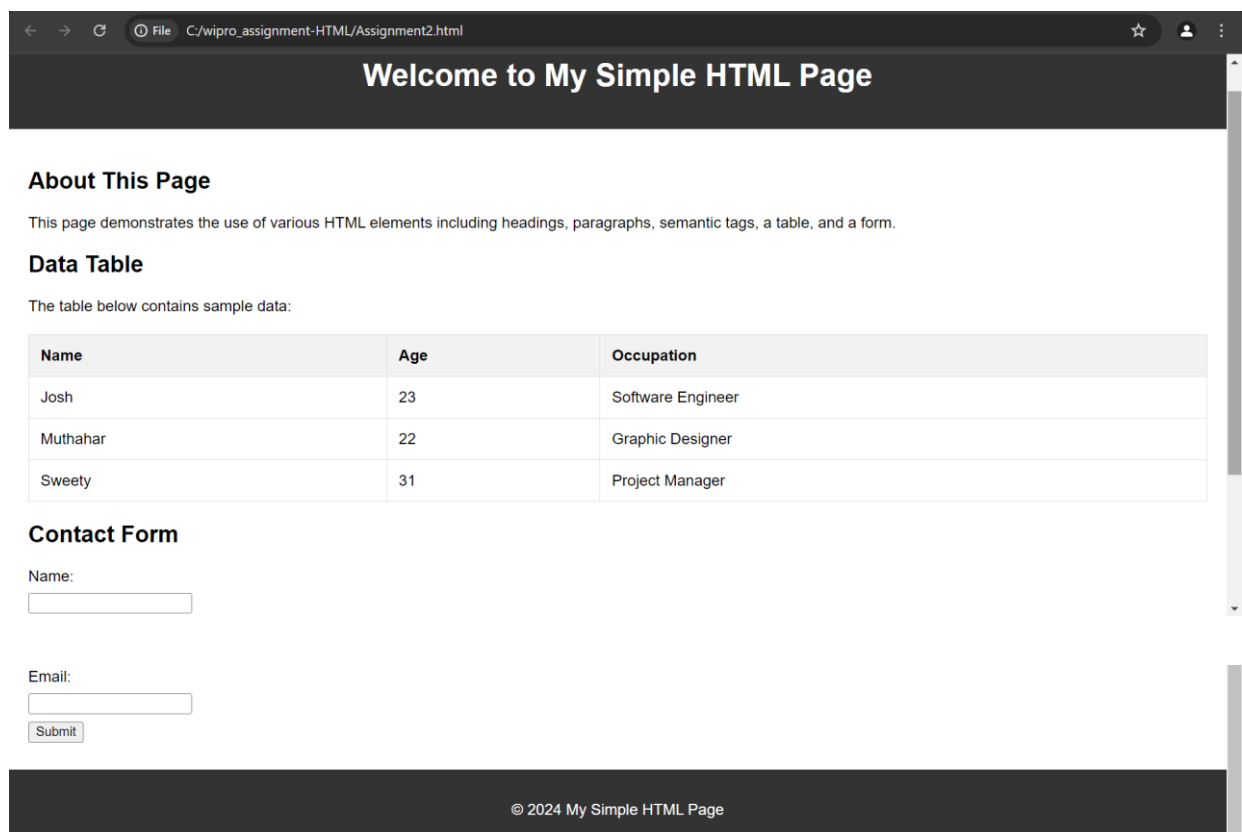
  <p>&copy; 2024 My Simple HTML Page</p>

</footer>


</body>

</html>
```

### Output:



**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>Box Model and Flexbox Layout</title>

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

</head>

<body>

  <header>

    <h1>Welcome to My Flexbox Layout Page</h1>

  </header>

  <main>

    <div class="container">

      <div class="column">

        <h2>Column 1</h2>

        <p>This is the first column. It contains some text to demonstrate the layout.</p>

      </div>

      <div class="column">

        <h2>Column 2</h2>

        <p>This is the second column. It contains some more text to demonstrate the layout.</p>

      </div>

      <div class="column">

        <h2>Column 3</h2>

        <p>This is the third column. It contains even more text to demonstrate the layout.</p>

      </div>

    </div>

  </main>

  <footer>

    <p>&copy; 2024 My Flexbox Layout Page</p>

  </footer>
```



```
</body>
```

```
</html>
```

```
* {  
  box-sizing: border-box;  
}
```

```
body {  
  font-family: Arial, sans-serif;  
  margin: 0;  
  padding: 0;  
}
```

```
header, footer {  
  background-color: #333;  
  color: white;  
  text-align: center;  
  padding: 1em 0;  
}
```

```
main {  
  padding: 20px;  
}
```

```
.container {  
  display: flex;  
  gap: 20px;  
  margin: 0 -10px; /* Negative margin to compensate for padding */  
}
```

```
.column {  
    background-color: #f2f2f2;  
    padding: 10px;  
    flex: 1;  
    margin: 0 10px; /* Adding margin to columns */  
    border: 1px solid #ddd;  
    border-radius: 5px;  
}
```

```
h2 {  
    margin-top: 0;  
}
```

```
p {  
    margin: 10px 0;  
}
```

### Output:

## Welcome to My Flexbox Layout Page

### Column 1

This is the first column. It contains some text to demonstrate the layout.

### Column 2

This is the second column. It contains some more text to demonstrate the layout.

### Column 3

This is the third column. It contains even more text to demonstrate the layout.

**Assignment 4:** Enhance the page by adding CSS3 animations to the menu and form elements. Also, use media queries to make the page responsive, ensuring it looks good on both desktop and mobile screen sizes.

```
<!DOCTYPE html>  
  
<html lang="en">  
  
<head>
```

```
<meta charset="UTF-8">

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

<title>Enhanced Page with Animations and Responsiveness</title>

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

</head>

<body>

<header>

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

  <nav>

    <ul class="menu">

      <li><a href="#">Home</a></li>

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

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

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

    </ul>

  </nav>

</header>

<main>

  <div class="container">

    <div class="column">

      <h2>Column 1</h2>

      <p>This is the first column. It contains some text to demonstrate the layout.</p>

    </div>

    <div class="column">

      <h2>Column 2</h2>

      <p>This is the second column. It contains some more text to demonstrate the layout.</p>

    </div>

    <div class="column">

      <h2>Column 3</h2>
```

<p>This is the third column. It contains even more text to demonstrate the layout.</p>

</div>

</div>

<section class="form-section">

<h2>Contact Us</h2>

<form>

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

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

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

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

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

</form>

</section>

</main>

<footer>

<p>&copy; 2024 My Enhanced Page</p>

</footer>

</body>

</html>

\* {

box-sizing: border-box;

}

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

```
}
```

```
header, footer {  
    background-color: #333;  
    color: white;  
    text-align: center;  
    padding: 1em 0;  
}
```

```
nav {  
    margin-top: 10px;  
}
```

```
.menu {  
    list-style: none;  
    padding: 0;  
    margin: 0;  
    display: flex;  
    justify-content: center;  
}
```

```
.menu li {  
    margin: 0 15px;  
}
```

```
.menu a {  
    text-decoration: none;  
    color: white;  
    padding: 5px 10px;  
    transition: background-color 0.3s, color 0.3s;  
}
```

```
.menu a:hover {  
    background-color: white;  
    color: #333;  
}
```

```
main {  
    padding: 20px;  
}
```

```
.container {  
    display: flex;  
    gap: 20px;  
    margin: 0 -10px;  
    flex-wrap: wrap;  
}
```

```
.column {  
    background-color: #f2f2f2;  
    padding: 10px;  
    flex: 1;  
    margin: 0 10px;  
    border: 1px solid #ddd;  
    border-radius: 5px;  
    transition: transform 0.3s;  
}
```

```
.column:hover {  
    transform: scale(1.05);  
}
```

```
h2 {  
    margin-top: 0;  
}
```

```
p {  
    margin: 10px 0;  
}
```

```
.form-section {  
    margin-top: 20px;  
    background-color: #f9f9f9;  
    padding: 20px;  
    border-radius: 5px;  
}
```

```
form label, form input, form button {  
    display: block;  
    margin: 10px 0;  
}
```

```
form input {  
    padding: 10px;  
    width: 100%;  
    border: 1px solid #ddd;  
    border-radius: 5px;  
    transition: border-color 0.3s, box-shadow 0.3s;  
}
```

```
form input:focus {  
    border-color: #333;  
    box-shadow: 0 0 5px rgba(0,0,0,0.2);  
}
```

```
}
```

```
form button {  
  padding: 10px 20px;  
  background-color: #333;  
  color: white;  
  border: none;  
  border-radius: 5px;  
  cursor: pointer;  
  transition: background-color 0.3s;  
}
```

```
form button:hover {  
  background-color: #555;  
}
```

```
@media (max-width: 768px) {  
  .container {  
    flex-direction: column;  
  }  
}
```



# Welcome to My Enhanced Page

- [Home](#)
- [About](#)
- [Services](#)
- [Contact](#)

## Column 1

This is the first column. It contains some text to demonstrate the layout.

## Column 2

This is the second column. It contains some more text to demonstrate the layout.

## Column 3

This is the third column. It contains even more text to demonstrate the layout.

## Contact Us

Name:  Email:

**Assignment 5:** Take the static HTML page from Day 1 and integrate Bootstrap. Refactor the navigation bar, table, and form to use Bootstrap components. Ensure the page is responsive using Bootstrap's grid system.

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

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

```
  <title>Bootstrap Enhanced Page</title>
```

```
  <!-- Bootstrap CSS -->
```

```
  <link href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
rel="stylesheet">
```

```
</head>
```

```
<body>
```

```
<header>
```

```
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
```

```
    <a class="navbar-brand" href="#">My Page</a>
```

```
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle
navigation">
```

```
      <span class="navbar-toggler-icon"></span>
```

```
</button>

<div class="collapse navbar-collapse" id="navbarNav">
  <ul class="navbar-nav">
    <li class="nav-item active">
      <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">About</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Services</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Contact</a>
    </li>
  </ul>
</div>
</nav>
</header>

<main class="container mt-4">
  <div class="row">
    <div class="col-md-4">
      <h2>Column 1</h2>
      <p>This is the first column. It contains some text to demonstrate the layout.</p>
    </div>
    <div class="col-md-4">
      <h2>Column 2</h2>
      <p>This is the second column. It contains some more text to demonstrate the layout.</p>
    </div>
    <div class="col-md-4">
```

<h2>Column 3</h2>

<p>This is the third column. It contains even more text to demonstrate the layout.</p>

</div>

</div>

<section class="form-section mt-5">

<h2>Contact Us</h2>

<form>

<div class="form-group">

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

<input type="text" class="form-control" id="name" name="name" required>

</div>

<div class="form-group">

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

<input type="email" class="form-control" id="email" name="email" required>

</div>

<button type="submit" class="btn btn-primary">Submit</button>

</form>

</section>

<section class="mt-5">

<h2>Sample Table</h2>

<table class="table table-striped">

<thead>

<tr>

<th>Header 1</th>

<th>Header 2</th>

<th>Header 3</th>

</tr>

</thead>

<tbody>

```
<tr>

    <td>Data 1</td>

    <td>Data 2</td>

    <td>Data 3</td>

</tr>

<tr>

    <td>Data 4</td>

    <td>Data 5</td>

    <td>Data 6</td>

</tr>

<tr>

    <td>Data 7</td>

    <td>Data 8</td>

    <td>Data 9</td>

</tr>

</tbody>

</table>

</section>

</main>


<footer class="text-center mt-5">

    <p>&copy; 2024 My Enhanced Page</p>

</footer>


<!-- Bootstrap JS -->

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>

<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.4/dist/umd/popper.min.js"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>

</body>

</html>
```

### Column 1

This is the first column. It contains some text to demonstrate the layout.

### Column 2

This is the second column. It contains some more text to demonstrate the layout.

### Column 3

This is the third column. It contains even more text to demonstrate the layout.

### Contact Us

Name:

Email:

Submit

### Sample Table

Header 1	Header 2	Header 3
Data 1	Data 2	Data 3
Data 4	Data 5	Data 6
Data 7	Data 8	Data 9