

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.

HTML:

```
<!DOCTYPE html>
<html>
<head>
  <title>Navigation Bar</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <nav>
    <ul>
      <li><a href="#home">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">Home Section</section>
  <section id="about">About Section</section>
  <section id="services">Services Section</section>
  <section id="contact">Contact Section</section>
</body>
</html>
```

CSS (in style.css file):

```
nav ul {
  list-style: none;
  margin: 0;
  padding: 0;
  display: flex;
  justify-content: space-between;
  background-color: #333;
  color: #fff;
}

nav li {
  margin-right: 20px;
}

nav a {
  color: #fff;
  text-decoration: none;
}
```

```

nav a:hover {
    background-color: #444;
    color: #fff;
}

nav a.active {
    background-color: #666;
    color: #fff;
}

```

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: 20px;
        }
        table {
            width: 100%;
            border-collapse: collapse;
            margin-top: 20px;
        }
        table, th, td {
            border: 1px solid black;
        }
        th, td {
            padding: 10px;
            text-align: left;
        }
    </style>
</head>
<body>
    <header>
        <h1>Welcome to My Simple HTML Page</h1>
    </header>
    <section>
        <h2>Introduction</h2>
        <p>This is a simple HTML page that includes various HTML elements such as
        headings, paragraphs, semantic tags, a table, and a form. p>

```

```

</section>
<article>
  <h2>Data Table</h2>
  <p>Below is a table containing some sample data:</p>
  <table>
    <thead>
      <tr>
        <th>Item</th>
        <th>Description</th>
        <th>Quantity</th>
        <th>Price</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>Apple</td>
        <td>Fresh Red Apple</td>
        <td>10</td>
        <td>100</td>
      </tr>
      <tr>
        <td>Banana</td>
        <td>Ripe Yellow Banana</td>
        <td>15</td>
        <td>50</td>
      </tr>
      <tr>
        <td>Orange</td>
        <td>Juicy Orange</td>
        <td>20</td>
        <td>75</td>
      </tr>
    </tbody>
  </table>
</article>
<section>
  <h2>Contact Form</h2>
  <p>Please fill out the form below to contact us:</p>
  <form action="#" method="post">
    <label for="name">Name:</label><br>
    <input type="text" id="name" name="name" required><br><br>
    <label for="email">Email:</label><br>
    <input type="email" id="email" name="email" required><br><br>
    <input type="submit" value="Submit">
  </form>
</section>
</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>
<head>
  <title>CSS Box Model and Multi-Column Layout</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container">
    <div class="header">Header</div>
    <div class="nav">Nav</div>
    <div class="main">
      <div class="column1">Column 1</div>
      <div class="column2">Column 2</div>
      <div class="column3">Column 3</div>
    </div>
    <div class="footer">Footer</div>
  </div>
</body>
</html>
```

CSS (in style.css file):

```
* {
  box-sizing: border-box;
  margin: 0;
  padding: 0;
}

.container {
  max-width: 1200px;
  margin: 0 auto;
  padding: 20px;
}

.header {
  background-color: #333;
  color: #fff;
  padding: 20px;
  text-align: center;
}

.nav {
  background-color: #444;
  color: #fff;
  padding: 20px;
  text-align: center;
```

```

}

.main {
    display: flex;
    flex-wrap: wrap;
    justify-content: space-between;
}

.column1, .column2, .column3 {
    width: 30%;
    margin: 20px;
    padding: 20px;
    background-color: #eee;
}

.column1 {
    order: 1;
}

.column2 {
    order: 2;
}

.column3 {
    order: 3;
}

.footer {
    background-color: #333;
    color: #fff;
    padding: 20px;
    text-align: center;
    clear: both;
}

```

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>Responsive Page with CSS Animations</title>
    <link rel="stylesheet" href="styles.css">
</head>

```

```
<body>
  <div class="container">
    <ul class="menu">
      <li class="menu-item">Home</li>
      <li class="menu-item">About</li>
      <li class="menu-item">Services</li>
      <li class="menu-item">Contact</li>
    </ul>
    <div class="form-container">
      <form>
        <input type="text" placeholder="Your Name">
        <input type="email" placeholder="Your Email">
        <textarea placeholder="Your Message"></textarea>
        <input type="submit" value="Submit">
      </form>
    </div>
  </div>
</body>
</html>
```

```
/* Base styles */
body {
  font-family: Arial, sans-serif;
}

.container {
  width: 80%;
  margin: 0 auto;
}

.menu {
  display: flex;
  justify-content: space-around;
  list-style: none;
  padding: 0;
}

.menu-item {
  padding: 10px 20px;
  transition: transform 0.3s ease-in-out;
}

.menu-item:hover {
  transform: scale(1.1);
}

.form-container {
  margin-top: 20px;
}
```

```
input, textarea {
  width: 100%;
  padding: 10px;
  margin: 10px 0;
  border: 1px solid #ccc;
  border-radius: 5px;
  transition: box-shadow 0.3s ease-in-out, border-color 0.3s ease-in-out;
}
```

```
input:focus, textarea:focus {
  box-shadow: 0 0 10px rgba(81, 203, 238, 1);
  border-color: #51cbee;
}
```

```
/* Media query for tablets and above */
```

```
@media (min-width: 768px) {
  .container {
    width: 60%;
  }
}
```

```
.menu {
  justify-content: space-between;
}
```

```
.menu-item {
  padding: 15px 30px;
}
```

```
.form-container {
  display: flex;
  justify-content: space-between;
}
```

```
input, textarea {
  width: 48%;
}
}
```

```
/* Media query for desktops and above */
```

```
@media (min-width: 1024px) {
  .container {
    width: 50%;
  }
}
```

```
.menu-item {
  padding: 20px 40px;
}
```

```
input, textarea {
  width: 45%;
}
```

```

    }
}

/* Media query for mobile devices */
@media (max-width: 767px) {
    .menu {
        flex-direction: column;
        align-items: center;
    }

    .menu-item {
        width: 100%;
        text-align: center;
        padding: 10px 0;
    }

    .form-container {
        flex-direction: column;
    }

    input, textarea {
        width: 100%;
    }
}

```

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 Integration</title>
    <link rel="stylesheet" href="(link unavailable)">
</head>
<body>
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
        <a class="navbar-brand" href="#">Navbar</a>
        <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>

```



```
</button>
<div class="collapse navbar-collapse" id="navbarSupportedContent">
  <ul class="navbar-nav mr-auto">
    <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="#">Contact</a>
    </li>
  </ul>
</div>
</nav>
<div class="container-fluid">
  <div class="row">
    <div class="col-lg-12">
      <h1>Bootstrap Integration</h1>
    </div>
  </div>
  <div class="row">
    <div class="col-lg-12">
      <table class="table table-striped table-bordered">
        <thead>
          <tr>
            <th>Name</th>
            <th>Age</th>
            <th>Occupation</th>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td>John Doe</td>
            <td>30</td>
            <td>Software Engineer</td>
          </tr>
          <tr>
            <td>Jane Doe</td>
            <td>25</td>
            <td>Teacher</td>
          </tr>
        </tbody>
      </table>
    </div>
  </div>
  <div class="row">
    <div class="col-lg-12">
      <form>
        <div class="form-group">
```

```

                                <label for="name">Name:</label>
                                <input type="text" class="form-control"
id="name" placeholder="Enter your name">
                                </div>
                                <div class="form-group">
                                <label for="email">Email:</label>
                                <input type="email" class="form-control"
id="email" placeholder="Enter your email">
                                </div>
                                <button type="submit" class="btn btn-
primary">Submit</button>
                                </form>
                                </div>
                                </div>
                                <div>
                                <div>
                                <script src="(link unavailable)"></script>
                                </body>
                                </html>

```