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HTML & CSS Assignments

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.

Solution:::

HTML CODE:::

```
<!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="assignment1.css">
</head>
<body>
  <nav>
    <ul class="nav-menu">
      <li class="nav-item"><a href="#home" class="nav-link">Home</a></li>
      <li class="nav-item"><a href="#about" class="nav-link">About</a></li>
      <li class="nav-item"><a href="#services" class="nav-link">Services</a></li>
      <li class="nav-item"><a href="#contact" class="nav-link">Contact</a></li>
    </ul>
  </nav>
  <section id="home">
    <h1>Home Section</h1>
    <p>Welcome to the home page.</p>
  </section>
  <section id="about">
    <h1>About Section</h1>
    <p>Learn more about us here.</p>
  </section>
  <section id="services">
```

```
        <h1>Services Section</h1>
        <p>These are the services we offer.</p>
    </section>
    <section id="contact">
        <h1>Contact Section</h1>
        <p>Get in touch with us.</p>
    </section>
</body>
</html>
```

CSS CODE::::

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

nav {
    background-color: #333;
}

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

.nav-item {
    margin: 0 15px;
}

.nav-link {
    text-decoration: none;
    color: white;
    padding: 14px 20px;
    display: block;
}

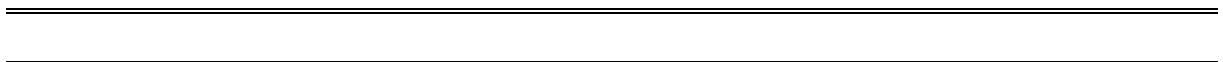
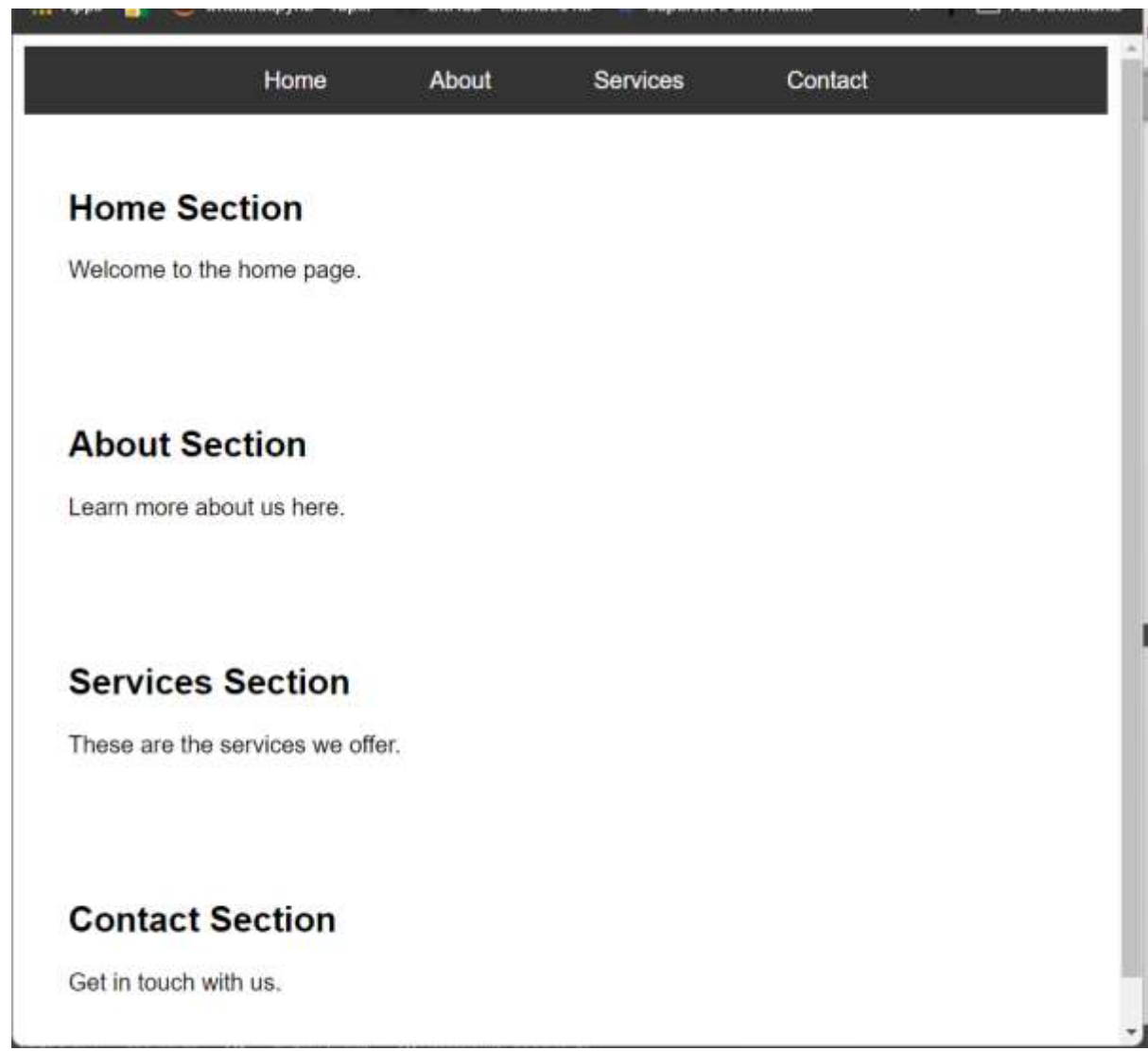
.nav-link:hover,
.nav-link.current {
    background-color: #575757;
    border-radius: 4px;
}

section {
    padding: 50px;
```

```
    margin: 20px 0;
}

h1 {
    margin-top: 0;
}
```

OUTPUT:::



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.

Solution::::

HTML CODE::::

```
<!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;
    }
    h1, h2, h3 {
      color: #333;
    }
    table {
      width: 100%;
      border-collapse: collapse;
      margin: 20px 0;
    }
    table, th, td {
      border: 1px solid #ddd;
    }
    th, td {
      padding: 8px;
      text-align: left;
    }
    th {
      background-color: #f2f2f2;
    }
    form {
      margin: 20px 0;
    }
    label {
      display: block;
      margin: 10px 0 5px;
    }
    input[type="text"], input[type="email"] {
      width: 100%;
      padding: 8px;
      margin: 5px 0 10px;
```

```

        border: 1px solid #ccc;
        border-radius: 4px;
    }
    input[type="submit"] {
        background-color: #4CAF50;
        color: white;
        padding: 10px 20px;
        border: none;
        border-radius: 4px;
        cursor: pointer;
    }
    input[type="submit"]:hover {
        background-color: #45a049;
    }
</style>
</head>
<body>
    <header>
        <h2>Welcome to My Simple HTML Page</h2>
    </header>

    <section>
        <h2>About This Page</h2>
        <p>This is a simple HTML page that demonstrates the use of headings,
paragraphs, semantic tags, a table, and a form.</p>
    </section>

    <article>
        <h2>Article Section</h2>
        <p>This section is an article that provides some interesting
information.</p>
        <h3>Table of Data</h3>
        <table>
            <thead>
                <tr>
                    <th>Name</th>
                    <th>Age</th>
                    <th>State</th>
                </tr>
            </thead>
            <tbody>
                <tr>
                    <td>Vaishali </td>
                    <td>25</td>
                    <td>Maharashtra</td>
                </tr>
                <tr>
                    <td>Veer </td>

```

```

        <td>29</td>
        <td>Karnatak</td>
    </tr>
    <tr>
        <td>Prem</td>
        <td>22</td>
        <td>Maharashtra</td>
    </tr>
</tbody>
</table>
</article>

<section>
    <h2>Contact Us</h2>
    <p>If you have any questions, please fill out the form below:</p>
    <form action="#" method="post">
        <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>
</body>
</html>

```

OUTPUT:::

File

D:/wipro/HTML%20Files/assignment2.html

Welcome to My Simple HTML Page

About This Page

This is a simple HTML page that demonstrates the use of headings, paragraphs, semantic tags, a table, and a form.

Article Section

This section is an article that provides some interesting information.

Table of Data

Name	Age	State
Vaishali	25	Maharashtra
Veer	29	Karnatak
Prem	22	Maharashtra

Contact Us

If you have any questions, please fill out the form below:

Name:

Email:

Submit

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.

Solution::::

HTML CODE::::

```
<!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</title>
  <link rel="stylesheet" href="assignment3.css">
</head>
<body>
  <header>
    <h1>Multi-Column Layout Example</h1>
  </header>

  <nav>
    <ul class="nav-menu">
      <li class="nav-item"><a href="#home" class="nav-link">Home</a></li>
      <li class="nav-item"><a href="#about" class="nav-link">About</a></li>
      <li class="nav-item"><a href="#services" class="nav-link">Services</a></li>
      <li class="nav-item"><a href="#contact" class="nav-link">Contact</a></li>
    </ul>
  </nav>

  <main class="container">
    <section id="home" class="column">
      <h2>Home Section</h2>
      <p>Welcome to the home page. Here is some introductory content.</p>
    </section>
    <section id="about" class="column">
      <h2>About Section</h2>
      <p>Learn more about us here.</p>
    </section>
    <section id="services" class="column">
      <h2>Services Section</h2>
      <p>These are the services we offer.</p>
    </section>
  </main>
</body>
</html>
```



```

        <section id="contact" class="column">
            <h2>Contact Section</h2>
            <p>Get in touch with us.</p>
            <form action="#" method="post">
                <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 Multi-Column Layout Example</p>
    </footer>
</body>
</html>

```

CSS CODE::::

```

/* Reset some default styles */
body, h1, h2, p, ul, li, form {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

body {
    font-family: Arial, sans-serif;
    padding: 20px;
}

/* Header styles */
header {
    text-align: center;
    margin-bottom: 20px;
}

/* Navigation bar styles */
nav {
    background-color: #333;
    margin-bottom: 20px;
}

```

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

.nav-item {
  margin: 0 15px;
}

.nav-link {
  text-decoration: none;
  color: white;
  padding: 14px 20px;
  display: block;
}

.nav-link:hover,
.nav-link.current {
  background-color: #575757;
  border-radius: 4px;
}

/* Container for main content */
.container {
  display: flex;
  gap: 20px;
  flex-wrap: wrap;
}

/* Column styles */
.column {
  flex: 1;
  min-width: 250px;
  padding: 20px;
  background-color: #f4f4f4;
  border: 1px solid #ddd;
  border-radius: 4px;
}

/* Footer styles */
footer {
  text-align: center;
  margin-top: 20px;
}

/* Form styles */
```

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

label {
    display: block;
    margin: 10px 0 5px;
}

input[type="text"], input[type="email"] {
    width: 100%;
    padding: 8px;
    margin: 5px 0 10px;
    border: 1px solid #ccc;
    border-radius: 4px;
}

input[type="submit"] {
    background-color: #4CAF50;
    color: white;
    padding: 10px 20px;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}

input[type="submit"]:hover {
    background-color: #45a049;
}
```

OUTPUT:::



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.

Solution::::

HTML CODE::::

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Enhanced Multi-Column Layout</title>
  <link rel="stylesheet" href="assignment4.css">
</head>
<body>
  <header>
    <h1>Enhanced Multi-Column Layout</h1>
  </header>

  <nav>
    <ul class="nav-menu">
      <li class="nav-item"><a href="#home" class="nav-link">Home</a></li>
      <li class="nav-item"><a href="#about" class="nav-link">About</a></li>
```

```

        <li class="nav-item"><a href="#services" class="nav-
link">Services</a></li>
        <li class="nav-item"><a href="#contact" class="nav-
link">Contact</a></li>
    </ul>
</nav>

<main class="container">
    <section id="home" class="column">
        <h2>Home Section</h2>
        <p>Welcome to the home page. Here is some introductory
content.</p>
    </section>
    <section id="about" class="column">
        <h2>About Section</h2>
        <p>Learn more about us here.</p>
    </section>
    <section id="services" class="column">
        <h2>Services Section</h2>
        <p>These are the services we offer.</p>
    </section>
    <section id="contact" class="column">
        <h2>Contact Section</h2>
        <p>Get in touch with us.</p>
        <form action="#" method="post">
            <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 Enhanced Multi-Column Layout</p>
</footer>
</body>
</html>

```

CSS CODE::::

```

/* Reset some default styles */
body, h1, h2, p, ul, li, form {
    margin: 0;

```

```
padding: 0;
box-sizing: border-box;
}

body {
  font-family: Arial, sans-serif;
  padding: 20px;
}

/* Header styles */
header {
  text-align: center;
  margin-bottom: 20px;
}

/* Navigation bar styles */
nav {
  background-color: #333;
  margin-bottom: 20px;
}

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

.nav-item {
  margin: 0 15px;
}

.nav-link {
  text-decoration: none;
  color: white;
  padding: 14px 20px;
  display: block;
  transition: background-color 0.3s, transform 0.3s;
}

.nav-link:hover,
.nav-link.current {
  background-color: #575757;
  border-radius: 4px;
  transform: scale(1.1);
}

/* Container for main content */
```

```

.container {
    display: flex;
    gap: 20px;
    flex-wrap: wrap;
}

/* Column styles */
.column {
    flex: 1;
    min-width: 250px;
    padding: 20px;
    background-color: #f4f4f4;
    border: 1px solid #ddd;
    border-radius: 4px;
    transition: transform 0.3s;
}

.column:hover {
    transform: translateY(-10px);
}

/* Footer styles */
footer {
    text-align: center;
    margin-top: 20px;
}

/* Form styles */
form {
    margin-top: 20px;
    animation: fadeIn 1s ease-in-out;
}

@keyframes fadeIn {
    from {
        opacity: 0;
    }
    to {
        opacity: 1;
    }
}

label {
    display: block;
    margin: 10px 0 5px;
}

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

```

```

    width: 100%;
    padding: 8px;
    margin: 5px 0 10px;
    border: 1px solid #ccc;
    border-radius: 4px;
    transition: border-color 0.3s;
}

input[type="text"]:focus, input[type="email"]:focus {
    border-color: #4CAF50;
}

input[type="submit"] {
    background-color: #4CAF50;
    color: white;
    padding: 10px 20px;
    border: none;
    border-radius: 4px;
    cursor: pointer;
    transition: background-color 0.3s, transform 0.3s;
}

input[type="submit"]:hover {
    background-color: #45a049;
    transform: scale(1.05);
}

/* Media Queries */
@media (max-width: 768px) {
    .nav-menu {
        flex-direction: column;
    }

    .nav-item {
        margin: 10px 0;
    }

    .container {
        flex-direction: column;
    }
}

@media (max-width: 480px) {
    header h1 {
        font-size: 1.5em;
    }

    .nav-link {

```



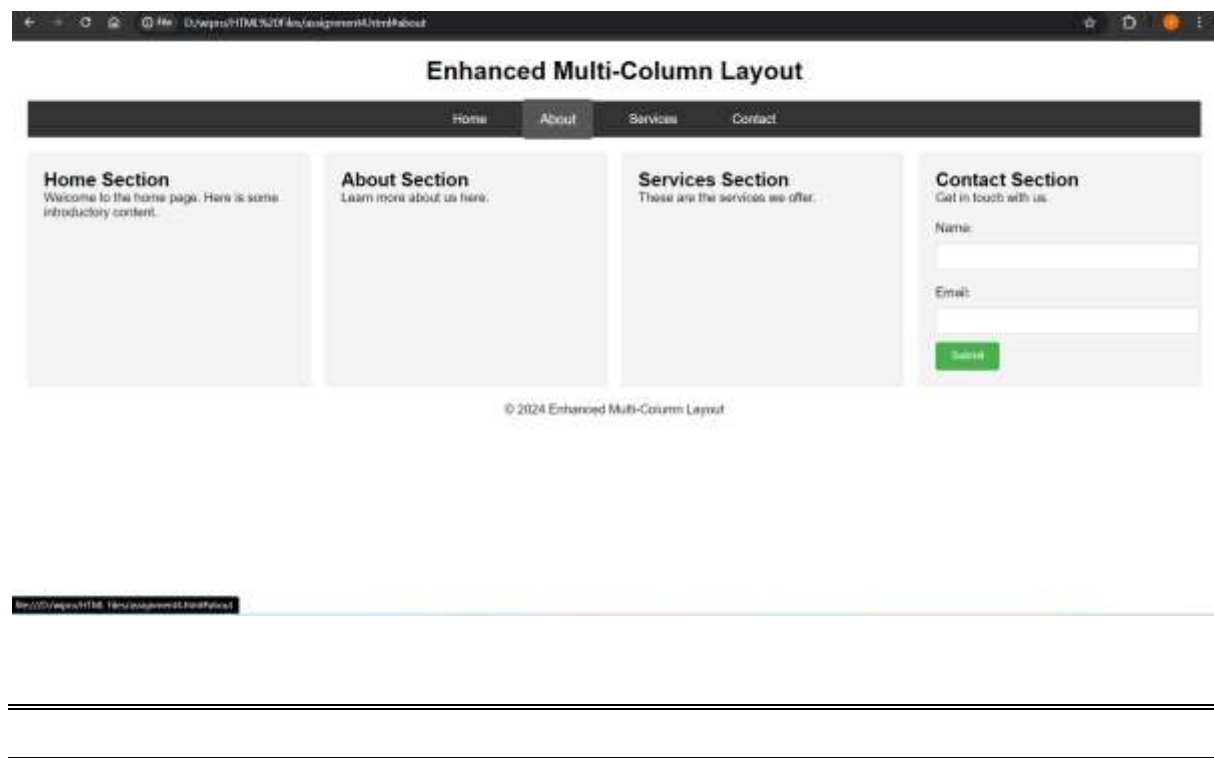
```

        padding: 10px;
    }

    .column {
        padding: 10px;
    }
}

```

OUTPUT:::



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.

Solution::::

HTML CODE::::

```

<!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>
<!-- Bootstrap CSS -->
<link
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body>
  <!-- Navigation Bar -->
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <a class="navbar-brand" href="#">MySite</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 ml-auto">
        <li class="nav-item"><a class="nav-link"
href="#home">Home</a></li>
        <li class="nav-item"><a class="nav-link"
href="#about">About</a></li>
        <li class="nav-item"><a class="nav-link"
href="#services">Services</a></li>
        <li class="nav-item"><a class="nav-link"
href="#contact">Contact</a></li>
      </ul>
    </div>
  </nav>

  <!-- Main Content -->
  <div class="container mt-4">
    <div class="row">
      <div class="col-lg-3 col-md-6 mb-4">
        <div class="card">
          <div class="card-body">
            <h2 class="card-title">Home Section</h2>
            <p class="card-text">Welcome to the home page. Here is
some introductory content.</p>
          </div>
        </div>
      </div>
      <div class="col-lg-3 col-md-6 mb-4">
        <div class="card">
          <div class="card-body">
            <h2 class="card-title">About Section</h2>
            <p class="card-text">Learn more about us here.</p>
          </div>
        </div>
      </div>
    </div>
  </div>

```

```

    </div>
    <div class="col-lg-3 col-md-6 mb-4">
        <div class="card">
            <div class="card-body">
                <h2 class="card-title">Services Section</h2>
                <p class="card-text">These are the services we
offer.</p>
            </div>
        </div>
    </div>
    <div class="col-lg-3 col-md-6 mb-4">
        <div class="card">
            <div class="card-body">
                <h2 class="card-title">Contact Section</h2>
                <p class="card-text">Get in touch with us.</p>
                <form action="#" method="post">
                    <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>
            </div>
        </div>
    </div>
</div>

<!-- Footer -->
<footer class="bg-dark text-white text-center py-3 mt-4">
    <p>&copy; 2024 Bootstrap Integration Example</p>
</footer>

<!-- Bootstrap JS and dependencies -->
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"
></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></sc
ript>

```

```
</body>
</html>
```

OUTPUT:::

