

4. Create a webpage which displays the syllabus PWA as a bulleted list. Unit titles are displayed as contents of the main list and topics individual units are displayed as sublists in the main list. (Hint:Use nested lists)

```
<!DOCTYPE html>

<html lang="en">

<head>

  <title>Progressive Web Apps Syllabus</title>

  <style>

    body {

      font-family: Arial, sans-serif;

      background-color: #f4f4f4;

      margin: 0;

      padding: 20px;

    }

    h1 {

      text-align: center;

    }

    .module {

      margin: 15px 0;

    }

  </style>

</head>

<body>

  <header>
```

<h1>Progressive Web Apps (BCA502T/P)</h1>

<h2>Semester: 5</h2>

<p>Credits: 3 | TPE: 2:2:0 | Core Course - CC</p>

</header>

<main>

<section>

<h2>Course Outcomes</h2>

CO# BCA502.1: Define the concepts of web application

CO# BCA502.2: Design attractive front-end pages using HTML
and CSS

CO# BCA502.3: Develop a front and back-end connection using
PHP and JavaScript

</section>

<section>

<h2>Modules</h2>

<div class="module">

<h3>Module 1: Introduction (4 hours)</h3>

Overview of Web and Cloud Development

Introduction to Front and Back-end Development

Application Development Tools

Tools and Technologies

</div>

<div class="module">

<h3>Module 2: HTML (8 hours)</h3>

Introduction to HTML

Setting development environment

Features of HTML

Evolution of HTML

HTML structure

HTML Scripting

HTML elements and attributes

Text formatting with HTML

Lists and tables

HTML Comments

Forms and user input elements

Hyperlinks

Multimedia elements

</div>

<div class="module">

<h3>Module 3: CSS (8 hours)</h3>

CSS Box Model: Margin, Border, Padding

Syntax – Selectors, Properties & Values

Styling and Values

Positioning (relative, absolute, fixed, static)

- Display Methods
- Background Images and Opacity
- Pseudo Classes and Elements
- Styling Images with Pseudo-classes
- Transitions and Transforms
- Navigation
- CSS Framework

</div>

<div class="module">

<h3>Module 4: Bootstrap (8 hours)</h3>

- Use of Bootstrap Framework and Implementation
- Bootstrap Grid System (Grid Layout, Responsive Design)
- Navigation Bars
- Forms and Buttons
- Navbar Creation
- Cards
- Creating Carousels
- Animate.css Integration
- Bootstrap Components
- Best Practice for Using Bootstrap Effectively</ li>
- Web Templates

</div>

```
<div class="module">

  <h3>Module 5: JavaScript Language (8 hours)</h3>

  <ul>

    <li>Overview and Syntax</li>

    <li>Variables and Control Statements</li>

    <li>Functions and Prototypes</li>

    <li>Object-oriented Programming (OOP) Concepts in
JavaScript</li>

    <li>Callbacks, Promises, and Async/Await</li>

    <li>Error Handling and Debugging Techniques</li>

    <li>Introduction to Popular JavaScript Frameworks (e.g., React,
Angular, Vue)</li>

    <li>JavaScript with HTML</li>

  </ul>

</div>

</section>

</main>

</body>

</html>
```

5. Write an HTML code to create a Home page having three links: About Us, Our Services and Contact Us. Create separate webpages for the three links.

index.html

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

```
<head>
  <title>My Website - Home</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 20px;
      background-color: #f4f4f4;
    }
    header {
      background-color: #0a69b7;
      color: white;
      padding: 20px;
      text-align: center;
    }
    nav {
      background-color: #4f80c5;
      padding: 10px;
      text-align: center;
    }
    nav a {
      color: white;
      text-decoration: none;
      padding: 10px 20px;
      margin: 0 10px;
    }
    nav a:hover {
      background-color: #85c0ea;
      border-radius: 5px;
    }
    footer {
      text-align: center;
      padding: 20px;
      background-color: #4f80c5;
      color: white;
      position: fixed;
      bottom: 0;
      width: 100%;
      left: 0;
    }
  </style>
</head>
<body>
  <header>
    <h1>Welcome to Our Website</h1>
  </header>

  <nav>
```

```
    <a href="about.html">About Us</a>
    <a href="services.html">Our Services</a>
    <a href="contact.html">Contact Us</a>
</nav>

<div>
    <h2>Welcome to our Homepage</h2>
    <p>This is the main page of our website. Feel free to explore our different sections
using the navigation menu above.</p>
</div>

<footer>
    <p>&copy; 2024 Your Company Name. All rights reserved.</p>
</footer>
</body>
</html>
```

about.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>About Us</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 0;
            padding: 20px;
            background-color: #f4f4f4;
        }
        header {
            background-color: #0a69b7;
            color: white;
            padding: 20px;
            text-align: center;
        }
        nav {
            background-color: #4f80c5;
            padding: 10px;
            text-align: center;
        }
        nav a {
            color: white;
            text-decoration: none;
            padding: 10px 20px;
            margin: 0 10px;
```

```

    }
    nav a:hover {
        background-color: #85c0ea;
        border-radius: 5px;
    }
    footer {
        text-align: center;
        padding: 20px;
        background-color: #4f80c5;
        color: white;
        position: fixed;
        bottom: 0;
        width: 100%;
        left: 0;
    }
</style>
</head>
<body>
    <header>
        <h1>About Us</h1>
    </header>
    <nav>
        <a href="index.html">Home</a>
        <a href="services.html">Our Services</a>
        <a href="contact.html">Contact Us</a>
    </nav>
    <div>
        <h2>Who We Are</h2>
        <p>We are a dedicated team of professionals committed to excellence in our field.</p>
        <h2>Our Mission</h2>
        <p>Our mission is to provide the highest quality services to our clients.</p>
    </div>
    <footer>
        <p>&copy; 2024 Your Company Name. All rights reserved.</p>
    </footer>
</body>
</html>

```

contact.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Contactus</title>
    <style>
        body {

```



```

        font-family: Arial, sans-serif;
        margin: 0;
        padding: 20px;
        background-color: #f4f4f4;
    }
    header {
        background-color: #0a69b7;
        color: white;
        padding: 20px;
        text-align: center;
    }
    nav {
        background-color: #4f80c5;
        padding: 10px;
        text-align: center;
    }
    nav a {
        color: white;
        text-decoration: none;
        padding: 10px 20px;
        margin: 0 10px;
    }
    nav a:hover {
        background-color: #85c0ea;
        border-radius: 5px;
    }
    footer {
        text-align: center;
        padding: 20px;
        background-color: #4f80c5;
        color: white;
        position: fixed;
        bottom: 0;
        width: 100%;
        left: 0;
    }
</style>
</head>
<body>
    <header>
        <h1>Contact Us</h1>
    </header>
    <nav>
        <a href="index.html">Home</a>
        <a href="about.html">Contact Us</a>
        <a href="services.html">Our Services</a>
    </nav>
</div>

```

```
<p>Get in touch with us using the contact information below:</p>
<p>Email: info@example.com</p>
<p>Phone: 555-555-5555</p>
<p>Address: 123 Main St, Anytown, USA</p>
</div>
<footer>
  <p>&copy; 2024 Your Company Name. All rights reserved.</p>
</footer>
</body>
</html>
```

services.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Our Services</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 20px;
      background-color: #f4f4f4;
    }
    header {
      background-color: #0a69b7;
      color: white;
      padding: 20px;
      text-align: center;
    }
    nav {
      background-color: #4f80c5;
      padding: 10px;
      text-align: center;
    }
    nav a {
      color: white;
      text-decoration: none;
      padding: 10px 20px;
      margin: 0 10px;
    }
    nav a:hover {
      background-color: #85c0ea;
      border-radius: 5px;
    }
    footer {
      text-align: center;
```

```

padding: 20px;
background-color: #4f80c5;
color: white;
position: fixed;
bottom: 0;
width: 100%;
left: 0;
}
</style>
</head>
<body>
  <header>
    <h1>Our Services</h1>
  </header>

  <nav>
    <a href="index.html">Home</a>
    <a href="about.html">About Us</a>
    <a href="contact.html">Contact Us</a>
  </nav>
  <div>
    <div class="service">
      <h2>Service 1</h2>
      <p>Description of service 1</p>
    </div>
    <div class="service">
      <h2>Service 2</h2>
      <p>Description of service 2</p>
    </div>
    <div class="service">
      <h2>Service 3</h2>
      <p>Description of service 3</p>
    </div>
  </div>
  <footer>
    <p>&copy; 2024 Your Company Name. All rights reserved.</p>
  </footer>
</body>
</html>

```

6. Develop and demonstrate the usage of inline, internal and external style sheet using CSS

main.html

```
<!DOCTYPE html>
```

```

<html lang="en">
<head>
  <title>CSS Stylesheet Demonstration</title>
  <link rel="stylesheet" href="styles.css">
  <style>
    body {
      background-color: #f0f0f0;
    }
    h2 {
      color: darkblue;
    }
  </style>
</head>
<body>
  <header>
    <h1>Various CSS Stylesheet Demonstrations</h1>
  </header>
  <main>
    <section id="inline">
      <h2 style="color: green;">Inline Styles</h2>
      <p style="font-size: 16px;">Inline styles are applied directly to an HTML element
using the `style` attribute.</p>
    </section>
    <section id="internal">
      <h2>Internal Styles</h2>
      <p>Internal styles are defined within a style tag in the head section of the HTML
document.</p>
    </section>
    <section id="external">
      <h3>External Styles</h3>
      <p>External styles are defined in a separate CSS file, which is linked to the HTML
document using a link tag.</p>
    </section>
  </main>
</body>
</html>

```

mystyles.css

```

/* External stylesheet */
body {
  font-family: Arial, sans-serif;
}
h3 {
  color: black;
}

```

7. Create a webpage which displays a hyperlink for each subject in your current semester. When the user clicks, it should open the respective subject's page. (Note: The subject pages can be empty)

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>SemesterSubjects</title>
</head>
<body>
  <header>
    <h1>5th Semester Subjects</h1>
    <nav>
      <ul>
        <li><a href="AINN.html">AINN (Artificial Intelligence In Neural Network)</a></li>
        <li><a href="IPAA.html">IPAA (Image Processing for AI Applications)</a></li>
        <li><a href="PWA.html">PWA (Progressive Web Applications)</a></li>
      </ul>
    </nav>
  </header>
  <main>
    <p>Please click on any of the subjects above to view more information.</p>
  </main>
</body>
</html>
```

AINN.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>ainn</title>
</head>
<body>
  <main>
    <h2>AINN</h2>
  </main>
</body>
</html>
```

IPAA.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>ipaa</title>
</head>
<body>
  <main>
    <h2>IPAA Course</h2>
  </main>
</body>
</html>
```

PWA.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>pwa</title>
</head>
<body>
  <main>
    <h2>PWA Course</h2>
  </main>
</body>
</html>
```

8. Create a webpage to manage personal details like name, class, qualifications, photo, address etc., using tables and other suitable HTML tags.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Personal Details Management</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      padding: 20px;
    }
    table {
      width: 100%;
      border-collapse: collapse;
      background-color: #fff;
    }
  </style>
</head>
```

```

}
table, th, td {
    border: 1px solid #ddd;
}
th, td {
    padding: 15px;
    text-align: left;
}
th {
    background-color: #800909;
    color: white;
}
img {
    width: 100px;
    height: auto;
}
h1 {
    text-align: center;
    color: #333;
}
</style>
</head>
<body>
    <header>
        <h1>Personal Details Management</h1>
    </header>
    <main>
        <table>
            <tr>
                <th>Field</th>
                <th>Details</th>
            </tr>
            <tr>
                <td>Name</td>
                <td>John Doe</td>
            </tr>
            <tr>
                <td>Class</td>
                <td>Undergraduate</td>
            </tr>
            <tr>
                <td>Qualifications</td>
                <td>BCA</td>
            </tr>
            <tr>
                <td>Photo</td>
                <td></td>
</tr>
<tr>
  <td>Phone</td>
  <td>1234567890</td>
</tr>
<tr>
  <td>Address</td>
  <td>123 Main Street, Karnataka, India</td>
</tr>
</table>
</main>
</body>
</html>
```