HTML (LAB)

3)a. Write a HTML program, that makes use of <article>, <aside>, <figure>, <figcaption>, <foote <header>, <main>, <nav>, <section>, <div>, <span> tags ?

```
<!DOCTYPE html>
<head>
    <title>HTML Semantic Elements</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 0;
        }
        header,
        footer {
            background: #333;
            color: white;
            text-align: center;
            padding: 1em;
        }
        nav {
            background: #555;
            color: white;
            padding: 1em;
        }
        nav a {
            color: white;
            margin: 0 10px;
            text-decoration: none;
        }
        main {
            padding: 1em;
        }
        article {
            margin-bottom: 2em;      }
```

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```css
    aside {
        background: #f4f4f4;
        padding: 1em;
        border-left: 4px solid #333;
    }
    figure {
        text-align: center;
    }
    figcaption {
        font-size: 0.9em;
        color: #555;
    }
    .highlight {
        color: red;
    }
    </style>
</head>
```

```html
<body>
    <header>
        <h1>Welcome to My Webpage</h1>
    </header>
    <nav>
        <a href="#section1">Home</a>
        <a href="#section2">About</a>
        <a href="#section3">Contact</a>
    </nav>
    <main>
        <section id="section1">
            <header>
                <h2>Introduction</h2>
            </header>
            <article>
```

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```html
            <h3>Importance of Semantic HTML</h3>
          <p>Semantic HTML improves accessibility, SEO, and clarity. For example, <span
              class="highlight">&lt;article&gt;</span> and &lt;section&gt; structure content.</p>
      </article>      <aside>
          <p>Tip: Use semantic tags for better screen reader support.</p>
      </aside>
    </section>
    <section id="section2">
      <header>
        <h2>About Me</h2>
      </header>
      <article>
        <figure>
          <img src="profile.jpg" alt="Profile picture" width="150">
          <figcaption>Profile Picture</figcaption>
        </figure>
        <p>I am a web developer passionate about accessible websites.</p>
      </article>
    </section>
    <section id="section3">
      <header>
        <h2>Contact</h2>
      </header>
      <article>
        <p>Reach me at <span class="highlight">Astro@creater.com</span>.</p>
      </article>
    </section>
  </main>
  <footer>
    <p>&copy; 2025 My Webpage</p>
  </footer>
</body>   </html>
```

OUTPUT:

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3) b. Write a HTML program, to embed audio and video into HTML web page.

```html
<!DOCTYPE html>
<head>
  <title>Embed Audio and Video</title>
</head>
<body>
  <header>
    <h1>Media Embedding Example</h1>
  </header>
  <nav>
    <a href="#audio">Audio</a> |
    <a href="#video">Video</a>
  </nav>
  <main>
    <section id="audio">
      <h2>Embedded Audio</h2>
      <audio controls>
        <source src="sampleaudio.mp3" type="audio/mpeg">
        <source src="example-audio.ogg" type="audio/ogg">
        Your browser does not support the audio element.
      </audio>
    </section>

    <section id="video">
      <h2>Embedded Video</h2>
      <video controls width="600">
        <source src="samplevideo.mp4" type="video/mp4">
        <source src="example-video.ogg" type="video/ogg">
        Your browser does not support the video tag.
      </video>
    </section>
  </main>
```

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```html
  <footer>
    <p>&copy; 2025 Media Embedding Example</p>
  </footer>

</body>

</html>
```

OUTPUT:

HTML (LAB)

3) c. Write a program to apply different types (or levels of styles or style specification formats). inline, internal, external styles to HTML elements. (identify selector, property and value) ?

```html
<!DOCTYPE html>

<head>

    <title>Styles in HTML</title>

    <!-- External CSS Link -->

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

    <style>

        /* Internal CSS */

        body {

            font-family: Arial, sans-serif;

            margin: 0;

            padding: 0;

            background-color: #f4f4f4;

        }

        h1 {

            color: blue;

            /* Selector: h1, Property: color, Value: blue */

            text-align: center;

        }

        .highlight {

            background-color: yellow;

            /* Selector: .highlight, Property: background-color, Value: yellow */

            font-weight: bold;
```

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```
        }

        #footer {

            text-align: center;

            font-size: 0.9em;

            color: gray;

        }

    </style>

</head>

<body>

    <header>

        <h1>HTML Styles Example</h1>

    </header>

    <main>

        <p style="color: green; font-size: 1.2em;">This is an example of <strong>inline style</strong>.

            <!-- Selector: Inline, Property: color, Value: green -->

        </p>

        <p class="highlight">This text is styled using <strong>internal CSS</strong>.</p>

        <p class="external-style">This text will be styled using <strong>external CSS</strong> defined
in the linked

            file.</p>

    </main>

    <footer id="footer">

        &copy; 2025 HTML Styles Example

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

OUTPUT: