
Web Programming – Lab Assignment 3

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LAB 3 - HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<title>Lab 3</title>
<link rel="stylesheet" href="styles.css" />
</head>
<body>
<a class="skip-link" href="#main-content">Skip to content</a>
<div class="container">
<h1>HTML Examples: Tables, Media, and Semantic Elements</h1>
<header class="site-header">
<nav class="main-nav" aria-label="Main navigation">
<ul>
<li><a href="#part1">Tables</a></li>
<li><a href="#part2">Code Elements</a></li>
<li><a href="#part3">Semantic Layout</a></li>
<li><a href="#part4">Audio / Video</a></li>
</ul>
</nav>
</header>
```

```
<main id="main-content">
<section id="part1" class="example-section">
<h2>Tables</h2>
<div class="table-wrap">
<table class="marks-table" aria-describedby="marks-desc" style="border-width: 2px; border-color: black; border-style: solid; border-collapse: collapse;">
<caption>Marks Tally</caption>
<colgroup>
<col class="col-name" />
<col class="col-num" />
<col class="col-num" />
<col class="col-num" />
</colgroup>
<thead>
<tr>
<th scope="col">Name</th>
<th scope="col">Math</th>
<th scope="col">Science</th>
<th scope="col">English</th>
</tr>
</thead>
<tbody>
<tr style="background-color: lavender;">
<td style="background-color: lightskyblue;">Hrishikesh</td>
<td>99</td>
<td>96</td>
<td>97</td>
</tr>
<tr style="background-color: lavender;">
<td style="background-color: lightskyblue;">Supradhep</td>
<td>99</td>
<td>91</td>
<td>93</td>
</tr>
<tr style="background-color: lavender;">
<td style="background-color: lightskyblue;">Mohit</td>
<td colspan="2" style="background-color: orange;">Absent</td>
<td>99</td>
</tr>
</tbody>
<tfoot>
<tr>
```

```
<td colspan="4" class="table-note" style="background-color: lightgreen; color: black;">All marks are out  
of 100; "Absent" means the student did not attend.</td>  
</tr>  
</tfoot>  
</table>  
<p id="marks-desc" class="visually-hidden">Student marks for Math, Science and English (out of 100).  
"Absent" indicates the student did not attend that exam.</p>  
</div>  
</section>  
  
<section id="part2" class="example-section">  
<h2>Code-related Elements</h2>  
<div class="code-sample">  
<h3>Document</h3>  
<pre><code>for <var>i</var> in range(2):  
    print(i)</code></pre>  
<p>Save the document by pressing <kbd>Ctrl</kbd> + <kbd>S</kbd>.</p>  
<p><samp>File not found! Press F1 to continue...</samp></p>  
</div>  
</section>  
  
<section id="part3" class="example-section">  
<h2>Header, Footer, Section, Article, Nav, Aside</h2>  
<div id="festivals">  
<article>  
<h3>Pongal</h3>  
<p>Pongal is a Tamil harvest festival celebrating abundance and thanking the Sun God for a bountiful  
harvest.</p>  
</article>  
<article>  
<h3>Ugadi</h3>  
<p>Ugadi marks the Hindu New Year and symbolizes fresh beginnings, with unique traditions like Ugadi  
Pachadi.</p>  
</article>  
<aside class="side-note">  
<h4>Unity in diversity</h4>  
<p>Indian festivals showcase the country's rich heritage and bring people together across regions and  
traditions.</p>  
</aside>  
</div>  
</section>
```

```

<section id="part4" class="example-section">
  <h2>Audio and Video</h2>
  <div class="media-sample">
    <h3>Audio</h3>
    <audio controls>
      <source src="audio.mp3" type="audio/mpeg" />
      Your browser does not support the audio element.
    </audio>

    <h3>Video</h3>
    <video controls class="responsive-video" poster="poster.jpg">
      <source src="video.mp4" type="video/mp4" />
      Your browser does not support the video element.
    </video>
  </div>
</section>
</main>

<footer class="site-footer">
  <p>Author: Avyakth Shriram — Student ID: 24BCE5461</p>
  <address>
    <a href="mailto:your.email@example.com">avyakth1000@gmail.com</a>
  </address>
</footer>
</div>
</body>
</html>

```

LAB 3 – CSS:

```

/* Consolidated styles for LAB-3 examples */
:root {
  --bg: #ffffff;
  --surface: #f8fafc;
  --text: #1b1b1b;
  --muted: #6b7280;
}

```

```
--accent: #0b7285;
--table-head: #eef2f7;
--max-width: 1000px;
}

* { box-sizing: border-box; }
html, body { height: 100%; }
body {
margin: 0;
font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, 'Helvetica Neue', Arial, sans-serif;
color: var(--text);
background: var(--bg);
line-height: 1.45;
-webkit-font-smoothing: antialiased;
}

.container {
max-width: var(--max-width);
margin: 0 auto;
padding: 1rem;
}

.site-header {
background: var(--surface);
border-bottom: 1px solid #e6eef2;
padding: 1rem 0;
}
.site-header h1 { font-size: 1.25rem; margin: 0; padding: 0 0.25rem; }

.main-nav ul { list-style: none; margin: 0; padding: 0; display: flex; gap: 0.6rem; flex-wrap: wrap; }
.main-nav a { display: inline-block; padding: .35rem .5rem; color: var(--accent); text-decoration: none; }
.main-nav a:focus { outline: 3px solid rgba(11,114,133,0.16); border-radius: 4px; }

main { padding: 1rem 0; }
.example-section { margin-bottom: 1.25rem; padding: 0 0.25rem; }

.table-wrap { overflow: auto; border-radius: 6px; background: #fff; padding: 0.5rem; }
.marks-table { width: 100%; border-collapse: collapse; min-width: 480px; }
.marks-table caption { caption-side: top; text-align: left; font-weight: 600; padding: .25rem 0; }
.marks-table th, .marks-table td { padding: .5rem .75rem; border: 1px solid #e9eef2; text-align: left; }
.marks-table thead th { background: var(--table-head); font-weight: 700; }
.marks-table tbody tr:nth-child(even) { background: #fbfeff; }
.marks-table .table-note { font-size: .95rem; color: var(--muted); padding: .75rem; }
```

```
.code-sample pre { background: #0f1724; color: #e6eef8; padding: 0.75rem; border-radius: 6px; overflow: auto; }
.code-sample kbd { background: #111827; color: #fff; padding: .12rem .35rem; border-radius: 4px; font-family: monospace; }
.code-sample samp { display: inline-block; padding: .15rem 0; }

.media-sample audio, .media-sample video { max-width: 100%; display: block; margin: .5rem 0; }
.responsive-video { width: 100%; height: auto; border-radius: 6px; }

.side-note { background: #ffffe6; padding: .5rem; border-left: 3px solid #ffd166; }

.site-footer { border-top: 1px solid #e6eef2; padding: 1rem; text-align: center; color: var(--muted); }
.site-footer a { color: var(--accent); }

.visually-hidden { position: absolute !important; height: 1px; width: 1px; overflow: hidden; clip: rect(1px, 1px, 1px, 1px); white-space: nowrap; border: 0; padding: 0; margin: -1px; }

.skip-link { position: absolute; left: 0; top: -48px; background: var(--accent); color: #fff; padding: .5rem .75rem; border-radius: 0 0 4px 0; z-index: 100; }
.skip-link:focus { top: 0; }

/* Focus styles for keyboard users */
a:focus, button:focus, input:focus, textarea:focus { outline: 3px solid rgba(11,114,133,0.18); outline-offset: 2px; }

@media (max-width: 720px) {
  .main-nav ul { gap: .25rem; }
  .site-header h1 { font-size: 1rem; }
  .marks-table { min-width: 0; }
}

/* Section dividers: thin long lines between each example section */
.example-section + .example-section {
  border-top: 1px solid darkgray;
  margin-top: 1rem;
  padding-top: 0.75rem;
}
```

LAB 3 – Screenshots of Webpage:

HTML Examples: Tables, Media, and Semantic Elements

Tables Code Elements Semantic Layout Audio / Video

Tables

Marks Tally

Name	Math	Science	English
Hrishikesh	99	96	97
Supradhep	99	91	93
Mohit	Absent		99

All marks are out of 100; "Absent" means the student did not attend.

Code-related Elements

Document

```
for i in range(2):
    print(i)
```

Save the document by pressing **Ctrl + S**.

File not found! Press F1 to continue...

Header, Footer, Section, Article, Nav, Aside

Pongal

Pongal is a Tamil harvest festival celebrating abundance and thanking the Sun God for a bountiful harvest.

Ugadi

Ugadi marks the Hindu New Year and symbolizes fresh beginnings, with unique traditions like Ugadi Pachadi.

Unity in diversity

Indian festivals showcase the country's rich heritage and bring people together across regions and traditions.

Audio and Video

Audio



Video

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