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# 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>

```

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## 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: #fffef6; 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;
}
```

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### **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.

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## Audio and Video

### Audio



### Video



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