

Don Bosco Institute of Technology

Kurla (W), Mumbai 400 070

Internet Programming

Name: Parth Pravin Shikhare

Class: TE-IT

Roll No.: 53

Date: 1/8/2025

Experiment No.: 2

Title:

Design a basic web page using advanced HTML5

Problem Definition:

Design web pages using advanced HTML5 features including List, Frames, Forms, and Multimedia tags.

Pre-requisites:

1. Understanding of basic HTML5 structure and syntax
2. Familiarity with HTML5 form elements, multimedia, and lists
3. Basic knowledge of HTML frames and layout structure
4. A text editor or IDE and a web browser for testing

Theory:

Advanced HTML5 features allow developers to create more interactive and media-rich webpages.

Key elements include:

- Lists: ``, ``, and `` are used to create unordered and ordered lists.
- Frames: Though `<frameset>` is deprecated in HTML5, iframes (`<iframe>`) can be used to embed external web pages.
- Forms: Include form controls like `<input>`, `<textarea>`, `<select>`, `<button>`, etc., allowing user interaction.
- Multimedia: Tags like `<audio>` and `<video>` are used to embed media files with controls for play, pause, etc.

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Procedure:

1. Open a text editor or IDE.
2. Create a new HTML file and set up the basic structure.
3. Add list elements (ordered/unordered) to demonstrate list usage.
4. Use `<iframe>` to embed another webpage or document.
5. Create a form using various input controls (text, radio, checkbox, etc.).
6. Embed audio and video elements using `<audio>` and `<video>` tags.
7. Save the file with a .html extension and test it in a browser.
8. Modify and re-test as necessary.

Program:

First Code:

```
<!DOCTYPE html>

<html lang="en">

<head>
<meta charset="UTF-8"/>
<meta name="viewport" content="width=device-width, initial-scale=1.0"/>
<title>SE Marksheets</title>
<style>
body{font-family:Arial,sans-serif;margin:0;padding:20px}
h1{text-align:center;margin-bottom:20px}
.marksheet-container{max-width:1000px;margin:auto}
table{width:100%;border-collapse:collapse}
th,td{border:1px solid #000;padding:8px;text-align:center}
td table{width:100%;border:none}
td table td{border:none;padding:4px}
tr:nth-child(even){background-color:#f5f5f5}
```

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```
.footer-row td{border:none;font-weight:bold;text-align:left}

button{display:block;margin:20px auto 0;padding:8px 15px;border:1px solid #000;background:none;cursor:pointer}

a{text-decoration:none;color:inherit}

</style>

</head>

<body>

<h1>Second Year Marksheets</h1>

<div class="marksheets-container">

<table>

<tr><th>Sr No</th><th>Course Name</th><th>Credits</th><th>ESE</th><table><tr><th>Min</th><th>Obtained</th></tr></table></th><th>IA</th><table><tr><th>Min</th><th>Obtained</th></tr></table></th><th>Total</th><table><tr><th>Max</th><th>Obtained</th></tr></table></th><th>Grades</th><th>Pointers</th></tr>

<tr><td>1</td><td>Maths IV</td><td>4</td><td><table><tr><td>32</td><td>73</td></tr></table></td><td><table><tr><td>8</td><td>19</td></tr></table></td><td><table><tr><td>100</td><td>85</td></tr></table></td><td>0</td><td>10</td></tr>

<tr><td>2</td><td>Computer Networks</td><td>3</td><td><table><tr><td>32</td><td>66</td></tr></table></td><td><table><tr><td>8</td><td>19</td></tr></table></td><td><table><tr><td>100</td><td>85</td></tr></table></td><td>0</td><td>10</td></tr>

<tr><td>3</td><td>Operating System</td><td>4</td><td><table><tr><td>32</td><td>57</td></tr></table></td><td><table><tr><td>8</td><td>16</td></tr></table></td><td><table><tr><td>100</td><td>73</td></tr></table></td><td>B</td><td>8</td></tr>

<tr><td>4</td><td>Automata Theory</td><td>3</td><td><table><tr><td>32</td><td>44</td></tr></table></tr>
```

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```
/td><td><table><tr><td>8</td><td>20</td></tr></table></td><td><table><tr><td>100</td><td>64</td></tr></table></td><td>D</td><td>7</td></tr>
<tr><td>5</td><td>Computer Organisation and
Architecture</td><td>3</td><td><table><tr><td>32</td><td>64</td></tr></tab
le></td><td><table><tr><td>8</td><td>19</td></tr></table></td><td><table><
tr><td>100</td><td>83</td></tr></table></td><td>0</td><td>10</td></tr>
<tr class="footer-row"><td colspan="3">Remark: SUCCESSFUL</td><td
colspan="3">SGPI: 9.35</td><td colspan="2">Marks Obtained: 657 /
775</td></tr>
</table>
</div>
<a href=".profile.html"><button>Go Back</button></a>
</body>
</html>
```

Second Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Forms</title>
<style>
body{font-family:Arial,sans-serif;margin:0;padding:20px}
h1{text-align:center;margin-bottom:20px}
form{max-width:600px;margin:auto;padding:20px;border:1px solid #000}
```

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```
label{font-weight:bold;display:block;margin-bottom:5px}

input[type="text"],input[type="password"],input[type="date"],select{width:100%;padding:8px;margin-bottom:15px;border:1px solid #000}

.radio-group{margin-bottom:15px}

.radio-group label{font-weight:normal;margin-right:10px}

button{padding:8px 15px;border:1px solid #000;background:none;cursor:pointer}

.back-link{text-align:center;margin-top:15px}

a{text-decoration:none;color:inherit}

</style>

</head>

<body>

<h1>Student Details Form</h1>

<form action="submit">

<label for="name">Name:</label>

<input type="text" id="name" name="name" required>

<label>Department:</label>

<div class="radio-group">

<input type="radio" id="comps" name="fav_language" value="COMPS"><label for="comps">COMPS</label>

<input type="radio" id="it" name="fav_language" value="IT"><label for="it">IT</label>

<input type="radio" id="extc" name="fav_language" value="EXTC"><label for="extc">EXTC</label>

<input type="radio" id="mech" name="fav_language" value="MECH"><label for="mech">MECH</label>
```

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```
</div>

<label for="password">Roll No:</label>

<input type="text" id="password" name="password" required>

<label for="dob">Date of Birth:</label>

<input type="date" id="dob" name="dob">

<label for="gender">Gender</label>

<select name="gender_opt" id="gender">

<option value="Male">Male</option>

<option value="Female">Female</option>

<option value="Other">Other</option>

</select>

<button type="submit">Submit</button>

</form>

<div class="back-link">

<a href=".profile.html"><button>Go Back</button></a>

</div>

</body>

</html>
```

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Output:

Sr No	Course Name	Credits	ESE		IA		Total		Grades	Pointers
			Min	Obtained	Min	Obtained	Max	Obtained		
1	Maths IV	4	32	73	8	19	100	92	O	10
2	Computer Networks	3	32	66	8	19	100	85	O	10
3	Operating System	4	32	57	8	16	100	73	B	8
4	Automata Theory	3	32	44	8	20	100	64	D	7
5	Computer Organisation and Architecture	3	32	64	8	19	100	83	O	10

Remark: SUCCESSFUL

SGPI: 9.35

Marks Obtained: 657 /

775

[Go Back](#)

Student Details Form

Name:	<input type="text"/>
Department:	<input type="radio"/> COMPS <input type="radio"/> IT <input type="radio"/> EXTC <input type="radio"/> MECH
Roll No:	<input type="text"/>
Date of Birth:	<input type="text"/> dd - mm - yyyy <input type="checkbox"/>
Gender	<input type="text"/> Male <input type="button" value="▼"/>
<input type="button" value="Submit"/>	

[Go Back](#)

Results:

Successfully created an advanced HTML5 webpage using lists, frames, forms, and multimedia elements.

References:

- [1. https://developer.mozilla.org/en-US/docs/Web/HTML](https://developer.mozilla.org/en-US/docs/Web/HTML)
- [2. https://www.w3schools.com/html/](https://www.w3schools.com/html/)