

Don Bosco Institute of Technology

Kurla (W), Mumbai 400 070

Internet Programming

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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 Marksheet</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 Marksheet</h1>
```

```
<div class="marksheet-container">
```

```
<table>
```

```
<tr><th>Sr No</th><th>Course
```

```
Name</th><th>Credits</th><th>ESE<table><tr><th>Min</th><th>Obtained</th>  
</tr></table></th><th>IA<table><tr><th>Min</th><th>Obtained</th></tr></tab  
le></th><th>Total<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>10  
0</td><td>92</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><
```

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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></table></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">

<button>Go Back</button>

</div>

</body>

</html>

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Output:

Second Year Marksheet

| 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:

Department:
☐ COMPS
☐ IT
☐ EXTC
☐ MECH

Roll No:

Date of Birth:

Gender

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>
2. <https://www.w3schools.com/html/>