

Don Bosco Institute of Technology

Kurla (W), Mumbai 400 070

Internet Programming

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Class: TE-IT

Roll No.: 53

Date: 08/08/2025

Experiment No.: 4

Title:

Design a Web pages using Advance CSS3

Problem Definition:

Design web pages using advanced CSS3 features such as selectors, pseudo-classes, and pseudo-elements.

Pre-requisites:

1. Understanding of HTML5 structure and elements
2. Knowledge of basic CSS selectors and properties
3. Familiarity with linking external CSS files
4. A text editor or IDE and a modern web browser for testing

Theory:

CSS3 advanced features provide greater control over the styling and interactivity of web pages.

Key concepts covered:

- Selectors: Used to target HTML elements for styling. Types include universal (*), element (p, h1), class (.classname), ID (#idname), attribute selectors ([type='text']), and combinator.
- Pseudo-classes: Define the special state of an element. Examples include :hover, :focus, :active, :first-child, :nth-child().
- Pseudo-elements: Allow styling of specific parts of elements. Examples include ::before, ::after, ::first-letter, and ::first-line.

These tools allow developers to add interactivity (hover effects), highlight specific parts of elements (first letter of a paragraph), and create complex layouts with less code.

Procedure:

1. Create a basic HTML page structure with headings, paragraphs, lists, links, and forms.
2. Link an external CSS3 file to the HTML document.
3. Apply different types of CSS selectors to style multiple elements uniquely.
4. Add pseudo-classes like :hover to links and buttons, :focus to input fields, and :nth-child to list items.
5. Use pseudo-elements like ::before and ::after to insert decorative content, and ::first-letter or ::first-line for typography enhancements.
6. Test the webpage in a modern browser and observe the applied effects.
7. Debug and refine CSS styles as necessary.
8. Save final files and capture screenshots of the outputs.

Program:

```
<!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: "Segoe UI", Tahoma, Geneva, Verdana, sans-serif;
    background: linear-gradient(to right, #f0f4ff, #dbeafe);
    margin: 0;
    padding: 20px;
  }

  h1 {
    text-align: center;
    color: #1e3a8a;
    font-size: 2.5em;
    margin-bottom: 30px;
  }

  .marksheets-container {
    max-width: 1000px;
    margin: auto;
    background: white;
    padding: 20px;
    border-radius: 12px;
    box-shadow: 0 8px 20px rgba(0, 0, 0, 0.1);
  }
}
```

```
overflow-x: auto;
}

table {
  width: 100%;
  border-collapse: collapse;
  border: 2px solid #1e3a8a;
}

th, td {
  border: 1px solid #888;
  padding: 10px;
  text-align: center;
}

th {
  background-color: #1e3a8a;
  color: white;
}

td table {
  width: 100%;
  border: none;
}

td table td {
  border: none;
  padding: 6px;
}

tr:nth-child(even) {
  background-color: #f9fafc;
}

.footer-row {
  background-color: #e0e7ff;
  font-weight: bold;
  text-align: left;
}

.footer-row td {
  border: none;
  font-size: 1.1em;
```

```
padding: 15px;
}

button {
    display: block;
    margin: 30px auto 0;
    padding: 12px 25px;
    background-color: #2563eb;
    color: white;
    border: none;
    border-radius: 8px;
    font-size: 1em;
    cursor: pointer;
    transition: background-color 0.3s ease;
}

button:hover {
    background-color: #1e40af;
}
a {
    text-decoration: none;
    color: #2563eb;
}
</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
<table>
<tr>
<th>Min</th>
<th>Obtained</th>
</tr>
</table>
</th>
<th>
```

```

____ IA
____ <table>
____ <tr>
____   <th>Min</th>
____   <th>Obtained</th>
____ </tr>
____ </table>
____ </th>
____ <th>
____ Total
____ <table>
____ <tr>
____   <th>Max</th>
____   <th>Obtained</th>
____ </tr>
____ </table>
____ </th>
____ <th>Grades</th>
____ <th>Pointers</th>
____ </tr>

____ <!-- Course Rows -->
____ <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>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></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>

<!-- Footer Row -->
<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>

```

```

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```

Output:

Second Year Marksheets

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	

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Results:

Successfully designed advanced CSS3 styled web pages using selectors, pseudo-classes, and pseudo-elements.

References:

1. <https://developer.mozilla.org/en-US/docs/Web/CSS>
2. <https://www.w3schools.com/css/>