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| **Session** | **2024-25 (ODD)** | **Course Name** | **Web Technology Lab** |
| **Semester** | **3** | **Course Code** | **23CT1301** |
| **Roll No** | **64** | **Name of Student** | **Prem Nandurkar** |

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| Practical Number | 3 |
| Course Outcome | 1. Understand various internet technologies. 2. Design the web pages using HTML and CSS. 3. Implement the XML technology to store the data. 4. Develop the interactive web pages using JavaScript. |
| Aim | Design a web page using CSS which includes the following:   1. Use different font styles. 2. Control the repetition of image with background-repeat and no-repeat property. 3. Define style for links as a: link, a: active, a: hover, a: visited 4) Add customized cursors for links. |
| Problem Definition | Develop and demonstrate the usage of inline, internal and external style sheet using CSS. |
| Theory  (100 words) | Cascading Style Sheets (CSS) is a powerful tool used to design and format web pages. It allows developers to apply different font styles for better readability and visual appeal. The  background-image property with background-repeat and no-repeat controls whether images are tiled across the page or displayed  once, adding variety to design. CSS also enhances navigation by  styling links through pseudo-classes like a:link, a:visited, a:hover, and a:active. Additionally, customized cursors improve user  interaction by indicating clickable areas. CSS can be applied in  three ways—inline, internal, and external—making web design flexible, reusable, and easy to maintain. |
| Procedure and Execution  (100 Words) | Step for Implementation:   1. Create Project Folder o Make a folder (e.g., css-demo) to store your HTML and CSS files. 2. Create an External CSS File (style.css)    * Define body background using background-image with repeat or no-repeat.    * Add styles for links using a:link, a:visited, a:hover, and a:active.    * Set customized cursors for links. 3. Create HTML File (index.html) o Add <link rel="stylesheet" href="style.css"> to connect external CSS. |

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|  | o Use <style> inside <head> for internal CSS (e.g., headings, paragraphs). o Apply inline CSS with style="" inside tags (e.g., <p style="color:red;">).   1. Use Different Font Styles o Apply fonts like Arial, Georgia, or Courier New in different elements. 2. Background Repeat Demonstration o Use one section with background-repeat: repeat; o Use another with background-repeat: no-repeat;. 3. Add Link Section o Insert a few <a> tags to show link color changes in various states. 4. Add Cursor Demonstration   o Use <span> or <p> with different cursor styles like text, pointer, wait, etc.   1. Run in Browser o Open index.html in Chrome/Edge/Firefox to test. |
| Code:    <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <title>CSS Demonstration</title>    <!-- External Style Sheet -->  <link rel="stylesheet" href="style.css">    <!-- Internal Style Sheet -->  <style> h2 { color: #8b0000; text-align: center;  margin-top: 30px;  }    .internal-box { background-color: #ffe4e1; border: 2px solid #8b0000; border-radius: 10px; padding: 15px; margin: 20px auto; width: 60%; box-shadow: 0px 4px 6px rgba(0,0,0,0.1); font-size: 17px; text-align: center; |

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|  | }  </style>  </head>  <body>    <!-- External CSS Example -->  <h1>Demonstration of CSS Types</h1>  <p>This paragraph is styled using an <b>external stylesheet</b>. Notice the font, color, and spacing.</p>    <!-- Internal CSS Example -->  <h2>Internal CSS Example</h2>  <div class="internal-box">  This section is styled using <b>internal CSS</b> inside the &lt;style&gt; tag.  </div>    <!-- Inline CSS Example -->  <h2>Inline CSS Example</h2>  <p style="color: white; background-color: #6a5acd; font-size: 20px; padding: 12px; border-radius: 8px; width: 60%; margin: 0 auto; text-align: center;">  This paragraph is styled using <b>inline CSS</b>, applied directly to the element.  </p>    </body>  </html> |

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|  | Output: |
| Output Analysis | The web page displays tree images using both **repeat** and **no-repeat** backgrounds. Different font styles enhance readability, while links change colors for various states. Customized cursors improve interaction by indicating clickable elements. Inline, internal, and external CSS are implemented, showing flexibility and effective separation of content and design. |
| Link of student Github profile where lab assignment has been uploaded | https://github.com/Prem-Nandurkar |
| Conclusion | The webpage demonstrates CSS effectively with font styles, background-repeat, link states, and custom cursors. Using inline, internal, and external CSS ensures flexibility, better design, and separation of content from style. |
| Plag Report  (Similarity index <  12%) | 10% |
| Date | 11/08/2025 |