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| **Session** | **2024-25 (ODD)** | | **Course Name** | **Web Technology Lab** | |
| **Semester** | **3** | | **Course Code** | **23CT1301** | |
| **Roll No** | **53** | | **Name of Student** | **Kartik Sheshraoji Tale** | |
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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    * 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)    * Add <link rel="stylesheet" href="style.css"> to connect external CSS.    * Use <style> inside <head> for internal CSS (e.g., headings, paragraphs).    * Apply inline CSS with style="" inside tags (e.g., <p style="color:red;">). 4. Use Different Font Styles    * Apply fonts like Arial, Georgia, or Courier New in different elements. 5. Background Repeat Demonstration    * Use one section with background-repeat: repeat;    * Use another with background-repeat: no-repeat;. 6. Add Link Section    * Insert a few <a> tags to show link color changes in various states. 7. Add Cursor Demonstration    * Use <span> or <p> with different cursor styles like text, pointer, wait, etc. 8. Run in Browser    * Open index.html in Chrome/Edge/Firefox to test. | | | |
| Code:     <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>CSS</title>      <style>  body {      background-image: url("https://www.w3schools.com/css/img\_tree.png");      background-repeat: repeat;      background-size: 150px 150px;      font-family: "Segoe UI", Tahoma, Geneva, Verdana, sans-serif;      color: #4c0a0a;  }  header {      background-image: url("https://www.w3schools.com/css/img\_lights.jpg");      background-repeat: no-repeat;      background-size: cover;      padding: 50px;      text-align: center;      color: white;  }  nav a {      margin: 0 15px;      text-decoration: none;      font-weight: bold;      font-size: 18px;      padding: 8px 16px;      border-radius: 8px;  }  nav a:link {      color: white;      background: rgba(0, 0, 0, 0.4);  }  nav a:visited {      color: #f2c2ff;  }  nav a:hover {      color: yellow;      background: rgba(0, 0, 0, 0.7);      cursor: url("https://cur.cursors-4u.net/anime/ani-13/ani1225.cur"), pointer;  }  nav a:active {      color: lightgreen;  }  section {      padding: 40px;      background: #f9f9f9;      margin: 30px;      border-radius: 20px;      box-shadow: 0 4px 10px rgba(0,0,0,0.2);  }  .cursor-demo span {      display: inline-block;      margin: 15px;      padding: 10px 20px;      background: #e0f7fa;      border-radius: 10px;      font-size: 18px;      transition: 0.3s;  }  .cursor-demo span:hover {      background: #b2ebf2;  }  .text-cursor { cursor: text; }  .cross-cursor { cursor: crosshair; }  .wait-cursor { cursor: wait; }  .pointer-cursor { cursor: pointer; }  .help-cursor { cursor: help; }  </style>  </head>  <body>      <header>          <h1>✨Welcome to My Beautiful Web Page ✨</h1>          <nav>              <a href="#">Home</a>              <a href="#">Gallery</a>              <a href="#">About</a>              <a href="#">Contact</a>          </nav>      </header>      <section>          <h2>🖱 Cursor Demonstration</h2>          <p>Move your mouse over the text below to see different cursor styles:</p>          <div class="cursor-demo">              <span class="text-cursor">Text Cursor</span>              <span class="cross-cursor">Crosshair Cursor</span>              <span class="wait-cursor">Wait Cursor</span>              <span class="pointer-cursor">Pointer Cursor</span>              <span class="help-cursor">Help Cursor</span>          </div>      </section>  </body>  </html> | | | |
| 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/kartiktale12/WebTechnology> | | | |
| 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 | | | |