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| **Session** | 2025-2026 (ODD) | **Course Name** | Web Technology Lab |
| **Semester** | 3 | **Course Code** | 23CT1301 |
| **Roll No** | 52 | **Name of Student** | Karan Kumar |

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| **Practical**  **Number** | 1.B |
| **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** | Study HTML5 architecture and to implement base HTML5 tag. |
| **Problem**  **Definition** | Use tag in HTML5 |
| **Theory** | HTML:- HTML is the latest version of HyperText Markup Language, designed to structure and present content on the web. It was developed by W3C and WHATWG to improve flexibility, multimedia support, and cross-browser compatibility. Unlike earlier versions, HTML5 introduces semantic elements such as <header>, <footer>, <section>, and <article> for better page organization. It also supports audio, video, canvas drawing, geolocation, drag-and-drop, and local storage without relying on third-party plugins. HTML is backward compatible and supported by modern browsers like Chrome, Firefox, and Safari. Its simplified syntax, optional attributes, and new APIs make web applications faster, more interactive, and user-friendly. |
| **Procedure And**  **Execution** | 1. Opened VS code editor and created a new file.  2. Started with the HTML5 <!DOCTYPE html> and basic <html>, <head>, <body> structure.  3. Added headings, paragraphs, and links to test basic tags.  4. Used HTML5 semantic tags like <header>, <footer>, and <section> for structure.  5. Inserted an image and extra text for practice.  6. Saved the file with a .html extension.  7. Opened it in the browser to check output.  8. Made small changes until the webpage looked correct**.** |

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|  | <!DOCTYPE html>  <html>  <head>    <title>HTML5 Example</title>  </head>  <body>    <header>      <h1>Welcome to My Web Page</h1>      <p>This is a demo of basic HTML5 structure.</p>    </header>    <nav>      <a href="#">Home</a> |      <a href="#">About</a> |      <a href="#">Services</a> |      <a href="#">Contact</a>    </nav>    <section>      <article>        <h2>About HTML5</h2>        <p>HTML5 is the latest version of HTML. It adds new semantic tags, multimedia support, and many advanced features.</p>      </article>      <aside>        <h3>Quick Links</h3>        <ul>          <li>Learn HTML</li>          <li>Learn CSS</li>          <li>Learn JavaScript</li>        </ul>      </aside>    </section>    <footer>      <p>Created by Karan Kumar | Roll No: 52 | Computer Technology</p>    </footer>  </body>  </html> |

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|  | **Output:** |
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| **Output Analysis** | When the HTML file is opened in a web browser, the header displays the title “Welcome to Web Technology Lab” along with my name, roll number, and branch details.  Below the header, a navigation menu with three links (Home, About, Contact) is shown in a horizontal line.  The article section contains a heading “About HTML5” and a short paragraph describing it.  On the right or below (depending on screen size), the aside section appears with extra information. |
| **Link of**  **Student**  **Github**  **Profile** | https://github.com/karankumarr1408/Web-Technology-lab.git |
| **Conclusion** | When the HTML file is opened in a web browser, the header displays the title “Welcome to Web Technology Lab” along with my name, roll number, and branch details.  Below the header, a navigation menu with three links (Home, About, Contact) is shown in a horizontal line.  The article section contains a heading “About HTML5” and a short paragraph describing it.  On the right or below (depending on screen size), the aside section appears with extra information. |
| **Plag Report** | 9% |
| **Date** | 15th August 2025 |