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| **Course Name:** | Web Programming Laboratory (216U01L405) | **Semester:** | **IV** |
| **Date of Performance:** | **29 /1 /26** | **DIV/ Batch No:** | **A1** |
| **Student Name:** | **Fawwaz Ansari** | **Roll No:** | **1601024007** |

**Experiment No: 1**

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| **Title: Design and Development of a Web Portal using HTML5** |

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| **Aim of the Experiment: To design and develop a multi-page, case-study-based web portal using HTML5, demonstrating proper document structure, semantic elements, formatting, lists, links, images, tables.** |

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| **Objectives of the Experiment:** |
| 1. Develop structured and semantic HTML5 documents 2. Create interactive and media-rich web pages 3. Apply real-world problem context to web development 4. Build a basic but complete front-end web portal |
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| **COs to be achieved:** |
| CO1: Design dynamic web pages using various HTML tags. |

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| **Books/ Journals/ Websites references:** |
| 1. Students should write |

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| **Theory:** |
| Students should write about HTML 5 (citation needed for content taken (IEEE or APA7 style)) |

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| **Problem statement:** “Ration Shop Management System” Develop a web application for ration shop information like stock availability, beneficiary records, distribution reports. |
| Task:  **Task 1: Home Page – HTML5 Document Structure & Global Attributes**  **Use Case:**  Design the **Home Page**  **Requirements:**   * Header with portal name: *“Public Distribution System – Ration Shop Portal”* * Navigation menu: Dashboard | Stock | Beneficiaries | Distribution | Reports * Main section describing portal purpose * Footer with government disclaimer   **Deliverable:** index.html **Skills Tested:** Document structure, global attributes  **Task 2: Shop Information Card**  **Use Case:**  **Display ration shop details on the dashboard.**  **Requirements:**  **Shop ID, Shop Owner Name, Area**  **Highlight shop status (Active/Inactive) Use <strong> for labels and <em> for remarks**  **Deliverable:** card-details.html **Skills Tested:** Formatting & text-level tags  **Task 3: Stock Availability List**  **Use Case:**  Stock Availability List **Requirements:**   * Ordered list of ration items * Each item should display quantity and unit * Use description list for item details   **Deliverable:** stock-list.html **Skills Tested:** List tags, structured content display  **Task 4: Beneficiary Category Information**  **Use Case:** Explain different **ration beneficiary categories**  **Requirements:**   * Display at least three categories (APL, BPL, Antyodaya) * Highlight priority category * Show eligibility notes in smaller text   **Deliverable:** beneficiary-category.html **Skills Tested:** Text formatting, inline elements  **Task 5: Beneficiary Registration Form**  **Use Case:** Register a **new ration card holder**.  **Requirements:**   * Input fields for name, ration card number, family size * Dropdown for category selection * Address text area * Mandatory fields using required attribute * Submit button   **Deliverable:** beneficiary-form.html **Skills Tested:** Form design, global attributes, user input handling  **Task 6: Daily Distribution Records Table**  **Use Case:** Display **daily ration distribution records**.  **Requirements:**   * Table caption describing the data * Header row with column titles * Minimum 3 sample data rows * Clear separation of header and body   **Deliverable:** distribution-table.html  **Skills Tested:** Table creation, data organization  **Task 7: Commodity Image Gallery**  **Use Case:** Visually show **ration commodities** available in the shop.  **Requirements:**   * Display images of at least three commodities * Use image map to link each item to details * Proper alternate text for images   **Deliverable:** commodity-gallery.html  Use image map to link each item to details **Skills Tested:**  Image handling, image maps    **Task 8: Important Navigation & External Links**  **Use Case:** Provide useful **navigation and government links**  **Requirements:**   * At least four relevant links * External links should open in a new tab * Add title attribute for user guidance   **Deliverable:** important-links.html **Skills Tested:**Hyperlink creation, navigation design |
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| **Code :** |
| 1)  <!doctype html>  <html lang="en">    <head>      <meta charset="UTF-8" />      <meta name="viewport" content="width=device-width, initial-scale=1.0" />      <title>PDS - Ration Shop Management System</title>    </head>    <body      style="        font-family: Arial, sans-serif;        background-color: #f4f4f4;        margin: 0;        padding: 0;      "    >      <header        style="          background-color: #2c3e50;          color: white;          padding: 20px;          box-shadow: 0 2px 5px rgba(0, 0, 0, 0.2);        "      >        <h1 style="text-align: center; margin: 0; padding-bottom: 10px">          Public Distribution System – Ration Shop Portal        </h1>        <hr style="border: 0; border-top: 1px solid #555" />        <nav>          <table width="100%" *border*="0" style="margin-top: 10px">            <tr *align*="center">              <td>                <a                  href="index.html"                  style="                    color: #ecf0f1;                    text-decoration: none;                    font-weight: bold;                    padding: 5px 10px;                    display: inline-block;                  "                  >Dashboard</a                >              </td>              <td>                <a                  href="stock-list.html"                  style="                    color: #ecf0f1;                    text-decoration: none;                    padding: 5px 10px;                    display: inline-block;                  "                  >Stock Availability</a                >              </td>              <td>                <a                  href="beneficiary-category.html"                  style="                    color: #ecf0f1;                    text-decoration: none;                    padding: 5px 10px;                    display: inline-block;                  "                  >Categories</a                >              </td>              <td>                <a                  href="beneficiary-form.html"                  style="                    color: #ecf0f1;                    text-decoration: none;                    padding: 5px 10px;                    display: inline-block;                  "                  >New Registration</a                >              </td>              <td>                <a                  href="distribution-table.html"                  style="                    color: #ecf0f1;                    text-decoration: none;                    padding: 5px 10px;                    display: inline-block;                  "                  >Distribution Logs</a                >              </td>              <td>                <a                  href="commodity-gallery.html"                  style="                    color: #ecf0f1;                    text-decoration: none;                    padding: 5px 10px;                    display: inline-block;                  "                  >Gallery</a                >              </td>              <td>                <a                  href="important-links.html"                  style="                    color: #ecf0f1;                    text-decoration: none;                    padding: 5px 10px;                    display: inline-block;                  "                  >External Links</a                >              </td>            </tr>          </table>        </nav>      </header>      <main style="padding: 20px; max-width: 1200px; margin: 0 auto">        <section          style="            background: white;            padding: 20px;            border-radius: 8px;            box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);            margin-bottom: 20px;          "        >          <h2            style="              color: #333;              border-bottom: 2px solid #4caf50;              padding-bottom: 10px;              display: inline-block;            "          >            Welcome to the Ration Shop Management Dashboard          </h2>          <p style="color: #555; line-height: 1.6">            This automated portal assists shop owners in managing inventory,            tracking distribution, and maintaining digitized beneficiary records            under the Public Distribution System (PDS).          </p>        </section>        <br />        <section          style="            background: white;            padding: 20px;            border-radius: 8px;            box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);            margin-bottom: 20px;          "        >          <h3 style="color: #2980b9">Quick Shop Status</h3>          <p>            <strong>Current Active Shop:</strong>            <a              href="card-details.html"              style="color: #2980b9; text-decoration: none; font-weight: bold"              >View Detailed Shop Card</a            >          </p>          <ul style="color: #444">            <li><strong>Shop ID:</strong> RS-MH-400101</li>            <li><strong>Status:</strong> <mark>Active</mark></li>          </ul>        </section>        <br />        <section          style="            background: white;            padding: 20px;            border-radius: 8px;            box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);          "        >          <h3 style="color: #d35400">Management Quick Links</h3>          <table  *border*="1"            cellpadding="10"            width="50%"            style="border-collapse: collapse; width: 100%; max-width: 800px"          >            <tr style="background-color: #f2f2f2">              <th style="text-align: left; color: #333">Module</th>              <th style="text-align: left; color: #333">Action</th>            </tr>            <tr>              <td>Inventory Control</td>              <td>                <a                  href="stock-list.html"                  style="color: #007bff; text-decoration: none"                  >Check Stock Levels</a                >              </td>            </tr>            <tr>              <td>Beneficiary Management</td>              <td>                <a                  href="beneficiary-form.html"                  style="color: #007bff; text-decoration: none"                  >Add New Member</a                >              </td>            </tr>            <tr>              <td>Daily Reporting</td>              <td>                <a                  href="distribution-table.html"                  style="color: #007bff; text-decoration: none"                  >Update Records</a                >              </td>            </tr>          </table>        </section>      </main>      <br /><br /><br />      <footer        style="          background-color: #333;          color: #ccc;          padding: 20px;          margin-top: 20px;        "      >        <p *align*="center">          <small>            <strong>Official Government Disclaimer:</strong> This portal is            intended for authorized Ration Shop Owners only. Data privacy is            maintained as per PDS guidelines. &copy; 2026 Department of Food &            Civil Supplies.          </small>        </p>      </footer>    </body>  </html>  2)  <!doctype html>  <html lang="en">    <head>      <meta charset="UTF-8" />      <title>Shop Information</title>    </head>    <body      style="        font-family: Arial, sans-serif;        background-color: #f9f9f9;        padding: 20px;      "    >      <h2 style="color: #2c3e50">Ration Shop Dashboard</h2>      <article        style="          border: 1px solid #ddd;          padding: 20px;          width: 300px;          background-color: #fff;          border-radius: 5px;          box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);        "      >        <h3 style="margin-top: 0; color: #2980b9">Shop Information Card</h3>        <p><strong>Shop ID:</strong> RS-MH-400101</p>        <p><strong>Owner Name:</strong> Rajesh Kumar</p>        <p><strong>Area:</strong> Mumbai Central, Ward A</p>        <p><strong>Status:</strong> <mark>Active</mark></p>        <p>          <em            >Remarks: Monthly inspection completed. Stock levels are            satisfactory.</em          >        </p>      </article>      <p>        <a href="index.html" style="text-decoration: none; color: #333"          >Back to Home</a        >      </p>    </body>  </html>  3)  <!doctype html>  <html lang="en">    <head>      <meta charset="UTF-8" />      <title>Stock Availability</title>    </head>    <body      style="        font-family: Arial, sans-serif;        background-color: #f9f9f9;        padding: 20px;      "    >      <h2        style="          color: #333;          border-bottom: 2px solid #4caf50;          padding-bottom: 10px;          display: inline-block;        "      >        Current Stock Inventory      </h2>      <ol        style="          background: white;          padding: 20px 40px;          border-radius: 8px;          box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);          max-width: 600px;        "      >        <li style="margin-bottom: 20px; font-size: 1.1em">          <strong style="color: #2c3e50">Rice</strong>          <span style="color: #27ae60; font-weight: bold">(500 kg)</span>          <dl            style="              margin-top: 5px;              font-size: 0.9em;              color: #555;              background: #f4f4f4;              padding: 10px;              border-radius: 4px;            "          >            <dt style="font-weight: bold; color: #333">Variety</dt>            <dd style="margin-left: 20px; margin-bottom: 5px">              Sona Masuri / Long Grain            </dd>            <dt style="font-weight: bold; color: #333">Last Restocked</dt>            <dd style="margin-left: 20px">January 25, 2026</dd>          </dl>        </li>        <li style="margin-bottom: 20px; font-size: 1.1em">          <strong style="color: #2c3e50">Wheat</strong>          <span style="color: #27ae60; font-weight: bold">(450 kg)</span>          <dl            style="              margin-top: 5px;              font-size: 0.9em;              color: #555;              background: #f4f4f4;              padding: 10px;              border-radius: 4px;            "          >            <dt style="font-weight: bold; color: #333">Grade</dt>            <dd style="margin-left: 20px">Grade A Sharbati</dd>          </dl>        </li>        <li style="margin-bottom: 10px; font-size: 1.1em">          <strong style="color: #2c3e50">Sugar</strong>          <span style="color: #e67e22; font-weight: bold">(100 kg)</span>          <dl            style="              margin-top: 5px;              font-size: 0.9em;              color: #555;              background: #f4f4f4;              padding: 10px;              border-radius: 4px;            "          >            <dt style="font-weight: bold; color: #333">Packaging</dt>            <dd style="margin-left: 20px">1kg Sealed Packets</dd>          </dl>        </li>      </ol>      <p>        <a          href="index.html"          style="text-decoration: none; color: #007bff; font-weight: bold"          >Back to Home</a        >      </p>    </body>  </html>  4)  <!doctype html>  <html lang="en">    <head>      <meta charset="UTF-8" />      <title>Beneficiary Categories</title>    </head>    <body      style="        font-family: Arial, sans-serif;        padding: 20px;        background-color: #fff;      "    >      <h2 style="color: #d35400">Ration Card Categories</h2>      <ul style="list-style-type: none; padding: 0">        <li          style="            background: #ecf0f1;            margin: 10px 0;            padding: 15px;            border-left: 5px solid #bdc3c7;          "        >          <strong>APL (Above Poverty Line):</strong> Standard pricing.          <br /><small>Note: Income exceeds the state-defined threshold.</small>        </li>        <li          style="            background: #ecf0f1;            margin: 10px 0;            padding: 15px;            border-left: 5px solid #e67e22;          "        >          <mark><strong>BPL (Below Poverty Line):</strong></mark> Subsidized rates          for essential goods. <br /><small            >Note: Priority status for monthly wheat and rice allocation.</small          >        </li>        <li          style="            background: #ecf0f1;            margin: 10px 0;            padding: 15px;            border-left: 5px solid #c0392b;          "        >          <strong>Antyodaya (AAY):</strong> Highly subsidized rates for the          poorest families. <br /><small            >Note: Eligible for 35kg of food grains per month.</small          >        </li>      </ul>      <p>        <a href="index.html" style="text-decoration: none; color: #333"          >Back to Home</a        >      </p>    </body>  </html>  5)  <!doctype html>  <html lang="en">    <head>      <meta charset="UTF-8" />      <title>Beneficiary Registration</title>    </head>    <body      style="        font-family: Arial, sans-serif;        background-color: #f4f4f4;        padding: 20px;      "    >      <h2 style="text-align: center; color: #333">        New Beneficiary Registration      </h2>      <form        action="#"        method="post"        style="          background: #fff;          padding: 20px;          border-radius: 8px;          box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);          max-width: 500px;          margin: 0 auto;        "      >        <label for="fname" style="font-weight: bold">Full Name:</label><br />        <input          type="text"          id="fname"          name="fname"          required          placeholder="Enter full name"          style="            width: 100%;            padding: 8px;            margin: 5px 0 15px;            box-sizing: border-box;          "        /><br /><br />        <label for="cardnum" style="font-weight: bold">Ration Card Number:</label        ><br />        <input          type="text"          id="cardnum"          name="cardnum"          required          pattern="[A-Z0-9]{10}"          title="10 digit Alphanumeric ID"          style="            width: 100%;            padding: 8px;            margin: 5px 0 15px;            box-sizing: border-box;          "        /><br /><br />        <label for="fsize" style="font-weight: bold">Family Size:</label><br />        <input          type="number"          id="fsize"          name="fsize"          min="1"          max="20"          required          style="            width: 100%;            padding: 8px;            margin: 5px 0 15px;            box-sizing: border-box;          "        /><br /><br />        <label for="cat" style="font-weight: bold">Category:</label><br />        <select          id="cat"          name="cat"          style="            width: 100%;            padding: 8px;            margin: 5px 0 15px;            box-sizing: border-box;          "        >          <option value="apl">APL</option>          <option value="bpl">BPL</option>          <option value="aay">Antyodaya</option></select        ><br /><br />        <label for="address" style="font-weight: bold">Residential Address:</label        ><br />        <textarea          id="address"          name="address"          rows="4"          cols="30"          required          style="            width: 100%;            padding: 8px;            margin: 5px 0 15px;            box-sizing: border-box;            font-family: inherit;          "        ></textarea        ><br /><br />        <input          type="submit"          value="Register Beneficiary"          style="            background-color: #4caf50;            color: white;            padding: 10px 20px;            border: none;            border-radius: 4px;            cursor: pointer;          "        />        <input          type="reset"          value="Clear Form"          style="            background-color: #f44336;            color: white;            padding: 10px 20px;            border: none;            border-radius: 4px;            cursor: pointer;            margin-left: 10px;          "        />      </form>      <p style="text-align: center">        <a href="index.html" style="text-decoration: none; color: #333"          >Back to Home</a        >      </p>    </body>  </html>  6)  <!doctype html>  <html lang="en">    <head>      <meta charset="UTF-8" />      <title>Distribution Records</title>    </head>    <body style="font-family: Arial, sans-serif; padding: 20px">      <h2 style="text-align: center; color: #333">Daily Distribution Log</h2>      <table  *border*="1"        cellpadding="10"        style="          width: 100%;          border-collapse: collapse;          margin-top: 20px;          background-color: #fff;          box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);        "      >        <caption style="font-weight: bold; margin-bottom: 10px; font-size: 1.2em">          Monthly Distribution Data - January 2026        </caption>        <thead style="background-color: #4caf50; color: white">          <tr>            <th style="padding: 12px; text-align: left">Date</th>            <th style="padding: 12px; text-align: left">Card Holder Name</th>            <th style="padding: 12px; text-align: left">Item Distributed</th>            <th style="padding: 12px; text-align: left">Quantity</th>          </tr>        </thead>        <tbody>          <tr style="border-bottom: 1px solid #ddd">            <td>2026-01-28</td>            <td>John Doe</td>            <td>Rice</td>            <td>5 kg</td>          </tr>          <tr style="border-bottom: 1px solid #ddd; background-color: #f9f9f9">            <td>2026-01-29</td>            <td>Anita Singh</td>            <td>Wheat</td>            <td>10 kg</td>          </tr>          <tr style="border-bottom: 1px solid #ddd">            <td>2026-01-30</td>            <td>Mohammed Ali</td>            <td>Sugar</td>            <td>2 kg</td>          </tr>        </tbody>      </table>      <p style="text-align: center; margin-top: 20px">        <a href="index.html" style="text-decoration: none; color: #333"          >Back to Home</a        >      </p>    </body>  </html>  7)  <!doctype html>  <html lang="en">    <head>      <meta charset="UTF-8" />      <title>Commodity Gallery</title>    </head>    <body style="font-family: Arial, sans-serif; padding: 20px; line-height: 1.6">      <h2 style="color: #333">Available Commodities</h2>      <p style="color: #666">        Click on an item in the image to see stock details.      </p>      <img        src="image.png"        width="600"        height="200"        alt="Ration Commodities Map"        usemap="#commoditymap"        style="          border: 2px solid #555;          max-width: 100%;          height: auto;          display: block;          margin-bottom: 20px;          box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);        "      />      <map name="commoditymap">        <area          shape="rect"          coords="0,0,200,200"          alt="Rice"          href="stock-list.html"          title="View Rice Stock"        />        <area          shape="rect"          coords="201,0,400,200"          alt="Wheat"          href="stock-list.html"          title="View Wheat Stock"        />        <area          shape="rect"          coords="401,0,600,200"          alt="Sugar"          href="stock-list.html"          title="View Sugar Stock"        />      </map>      <section style="background: #f0f0f0; padding: 15px; border-radius: 5px">        <h3 style="margin-top: 0">Commodity Descriptions</h3>        <ul>          <li><strong>Rice:</strong> Premium Sona Masuri</li>          <li><strong>Wheat:</strong> High-quality whole grain.</li>          <li><strong>Sugar:</strong> Monthly quota: 1kg per family.</li>        </ul>      </section>      <hr />      <p>        <a href="index.html" style="text-decoration: none; color: #007bff"          >Back to Home Dashboard</a        >      </p>    </body>  </html>  8)  <!doctype html>  <html lang="en">    <head>      <meta charset="UTF-8" />      <title>Important Links</title>    </head>    <body      style="        font-family: Arial, sans-serif;        background-color: #f9f9f9;        padding: 20px;      "    >      <h2        style="          color: #333;          border-bottom: 2px solid #007bff;          padding-bottom: 10px;          display: inline-block;        "      >        Government & Reference Links      </h2>      <nav>        <ul style="list-style-type: none; padding: 0; max-width: 600px">          <li            style="              background: white;              margin: 10px 0;              padding: 15px;              border-radius: 5px;              border-left: 5px solid #007bff;              box-shadow: 0 2px 4px rgba(0, 0, 0, 0.05);            "          >            <a              href="https://nfsa.gov.in"              target="\_blank"              title="National Food Security Act Portal"              style="                text-decoration: none;                color: #007bff;                font-weight: bold;                font-size: 1.1em;              "            >              NFSA Official Portal            </a>            <span style="color: #555; display: block; margin-top: 5px"              >- Federal guidelines and policy.</span            >          </li>          <li            style="              background: white;              margin: 10px 0;              padding: 15px;              border-radius: 5px;              border-left: 5px solid #28a745;              box-shadow: 0 2px 4px rgba(0, 0, 0, 0.05);            "          >            <a              href="https://pds-portal.nic.in"              target="\_blank"              title="PDS State Wise Portal"              style="                text-decoration: none;                color: #28a745;                font-weight: bold;                font-size: 1.1em;              "            >              State PDS Portals            </a>            <span style="color: #555; display: block; margin-top: 5px"              >- Locate regional shop info.</span            >          </li>          <li            style="              background: white;              margin: 10px 0;              padding: 15px;              border-radius: 5px;              border-left: 5px solid #ffc107;              box-shadow: 0 2px 4px rgba(0, 0, 0, 0.05);            "          >            <a              href="beneficiary-form.html"              title="Register locally"              style="                text-decoration: none;                color: #d39e00;                font-weight: bold;                font-size: 1.1em;              "            >              Internal Registration Form            </a>            <span style="color: #555; display: block; margin-top: 5px"              >- For shop administrators only.</span            >          </li>          <li            style="              background: white;              margin: 10px 0;              padding: 15px;              border-radius: 5px;              border-left: 5px solid #dc3545;              box-shadow: 0 2px 4px rgba(0, 0, 0, 0.05);            "          >            <a              href="https://uidai.gov.in"              target="\_blank"              title="Aadhaar Integration Link"              style="                text-decoration: none;                color: #dc3545;                font-weight: bold;                font-size: 1.1em;              "            >              UIDAI Portal            </a>            <span style="color: #555; display: block; margin-top: 5px"              >- For Aadhaar-Ration linking.</span            >          </li>        </ul>      </nav>      <p>        <a          href="index.html"          style="text-decoration: none; color: #333; font-weight: bold"          >Back to Home</a        >      </p>    </body>  </html> |

|  |
| --- |
| **Output / Screenshot:** |
| 1)    2)    3)  4)    5)    6)    7)    8) |

|  |
| --- |
| **Post Lab Subjective/Objective type Questions:** |
| 1. Write HTML code to create a hyperlink that opens in a new tab.   ANS: <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <title>Amazon Link</title>  </head>  <body>  <h1>Welcome</h1>  <p>Click the link below to open Amazon in a new tab:</p>  <a href="https://www.amazon.in" target="\_blank" rel="noopener noreferrer">  Visit Amazon  </a>  </body>  </html>   1. Differentiate between block-level and inline elements with examples.   Ans:   | **Feature** | **Block-level Elements** | **Inline Elements** | | --- | --- | --- | | **New Line** | Always start on a new line | Do not start on a new line | | **Width** | Take up the full width available | Take up only as much width as needed | | **Height & Width** | Can set height and width | Height and width usually cannot be set | | **Margin & Padding** | All sides work | Mostly left & right work | | **Contain Elements** | Can contain inline and other block elements | Can contain only text or inline elements |  1. Why are semantic tags preferred over <div> tags?   ANS: Semantic tags are preferred because they **clearly describe the meaning and purpose of the content**, while <div> is just a generic container with no meaning.   1. Why is <iframe> preferred over <frame> in modern HTML?   ANS:    <iframe> is preferred because <frame> is **obsolete** and **not supported in HTML5**, while <iframe> is fully supported and much more flexible.   1. Evaluate the importance of using alt attribute in images.   ANS: The **alt (alternative text) attribute** provides a text description of an image. It is very important for **accessibility, SEO, and usability**.   1. Suggest two additional features that can improve the given web portal and explain how HTML5 supports them.   ANS:  Feature1: The <canvas> Element This allows for dynamic, scriptable rendering of 2D shapes and bitmap images.  Feature2: The <summary> acts as the visible label, and everything else inside <details> is hidden until clicked. |

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| --- |
| **Conclusion and Discussion:**  I learned to use html and make basic web page |
| (students should write in your words)  (Also take feedback from fellow classmates and faculty to add here) |