HTML-5 DAY-1 HANDS ON- KARTHIKA-S

Problem 1

Assessment Goal: Check if learners understand basic HTML structure and content creation.

Hands-on Tasks:

1. Create a basic HTML page with proper structure (DOCTYPE, head, body)
2. Add a heading and a paragraph introducing yourself
3. Create an unordered list showing your hobbies
4. Create an ordered list showing daily routine steps
5. Create a simple table showing:
    - Student Name
    - Subject
    - Mark

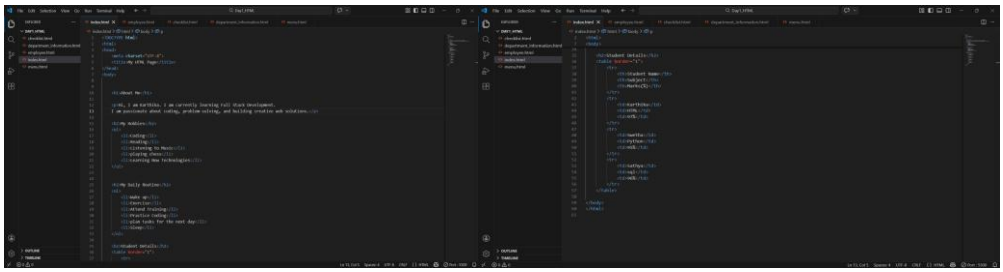
Expected Outcome:
A static HTML page that displays structured content correctly in the browser.

Problem 2: **Restaurant Menu Webpage (Level-1)**

CODE:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>My HTML Page</title>
</head>
<body>
  <h1>About Me</h1>
  <p>Hi, I am Karthika. I am currently learning Full Stack Development.
 I am passionate about coding, problem-solving, and building creative web solutions.</p>
  <h2>My Hobbies</h2>
  <ul>
    <li>Coding</li>
    <li>Reading</li>
    <li>Listening to Music</li>
    <li>playing chess</li>
    <li>Learning New Technologies</li>
  </ul>
<h2>My Daily Routine</h2>
  <ol>
    <li>Wake up</li>
    <li>Exercise</li>
    <li>Attend Training</li>
```

```
<li>Exercise</li>
    <li>Attend Training</li>
    <li>Practice Coding</li>
    <li>plan tasks for the next day</li>
    <li>Sleep</li>
  </ol>
  <h2>Student Details</h2>
  <table border="1">
    <tr>
      <th>Student Name</th>
      <th>Subject</th>
      <th>Marks(%)</th>
    </tr>
    <tr>
      <td>Karthika</td>
      <td>HTML</td>
      <td>97%</td>
    </tr>
    <tr>
      <td>Swetha</td>
      <td>Python</td>
      <td>95%</td>
    </tr>
    <tr>
      <td>Sathya</td>
      <td>sql</td>
      <td>96%</td>
    </tr>
  </table>
</body>
</html>
```



Output:

EXPLANATION:

This task involves using HTML5 structure (<!DOCTYPE html>, <html>, <head>, <body>) to organize content. Headings (<h1>, <h2>) and paragraphs (<p>) provide semantic content, unordered (<ul>) and ordered (<ol>) lists organize items, and tables (<table>, <tr>, <th>, <td>) present structured data. All tags ensure semantic meaning, readability, and accessibility.

Problem 2: Restaurant Menu Webpage (Level-1)

Scenario

A small restaurant wants a **basic menu webpage** to display their offerings online before moving to a full website.

📌 **Requirements**

Create an HTML page that displays:

1. **Restaurant Name** (Heading)
2. **About the Restaurant** (Paragraph)
3. **Menu Categories** (Unordered List)
4. **Price List** (Table)
5. **Table Structure**

Item Name	Category	Price (₹)
Paneer Butter Masala	Main Course	220
Veg Biryani	Main Course	180
Masala Dosa	Breakfast	90
Cold Coffee	Beverages	120

Technical Constraints

- Use proper **HTML boilerplate**
- Use at least **5 HTML elements**
- Use **HTML attributes** such as border, title, align

- Use:
    - <table>, <tr>, <th>, <td>
    - and

🎯 **Learning Outcome**

You should be able to:

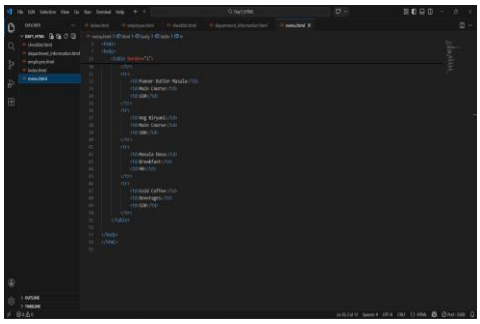
- Build a complete HTML page structure
- Use tables for structured data
- Use lists for grouped information

CODE:

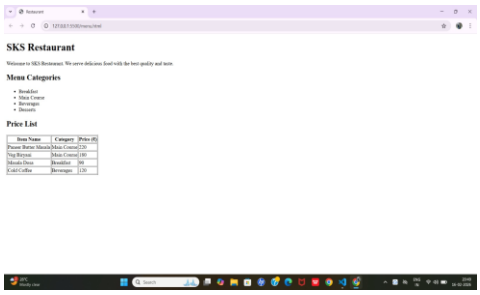
```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title> Restaurant</title>
</head>
<body>
  <h1>SKS Restaurant</h1>
  <p title="About our restaurant">
    Welcome to SKS Restaurant. We serve delicious food
    with the best quality and taste.
  </p>
  <h2>Menu Categories</h2>
  <ul>
    <li>Breakfast</li>
    <li>Main Course</li>
    <li>Beverages</li>
    <li>Desserts</li>
  </ul>
<h2>Price List</h2>
  <table border="1">
    <tr>
      <th>Item Name</th>
      <th>Category</th>
      <th>Price (₹)</th>
    </tr>
<tr>
      <td>Paneer Butter Masala</td>
      <td>Main Course</td>
```

```
<td>220</td>
      </tr>
      <tr>
        <td>Veg Biryani</td>
        <td>Main Course</td>
        <td>180</td>
      </tr>
<tr>
        <td>Masala Dosa</td>
        <td>Breakfast</td>
        <td>90</td>
      </tr>
      <tr>
        <td>Cold Coffee</td>
        <td>Beverages</td>
        <td>120</td>
      </tr>
  </table>


</body>
</html>
```



OUTPUT:



SKS Restaurant

Welcome to SKS Restaurant. We serve delicious food with the best quality and taste.

Menu Categories

- Breakfast
- Main Course
- Beverages
- Desserts

Price List

Item Name	Category	Price (₹)
Paneer Butter Masala	Main Course	220
Veg Biryani	Main Course	180
Masala Dosa	Breakfast	90
Cold Coffee	Beverages	120

EXPLANATION:

In this task, we display the restaurant name as a heading, an about section as a paragraph, menu categories using an unordered list, and menu items with prices in a table. Tables (<table>, <tr>, <th>, <td>) organize structured data, lists (<ul> /) group items logically, and semantic elements ensure readable, accessible, and maintainable content. Attributes like border, title, and align enhance presentation and clarity.

Problem 3: Personal Grocery Checklist (Level-1)

Scenario

You are building a **simple webpage for personal use** to plan your weekly grocery shopping. The page should clearly show **priority items** and **optional items**, so it's easy to decide what to buy first.

📌 **Requirements**

Create an HTML webpage that includes:

1. A **page title**:
   Weekly Grocery Checklist
2. A **main heading** displaying the same title.
3. An **Ordered List** showing **high-priority grocery items**, such as:
   - Rice
   - Milk
   - Vegetables
   - Cooking Oil
4. An **Unordered List** showing **optional or non-essential items**, such as:
   - Snacks
   - Ice cream
   - Soft drinks

🛠️ **Technical Constraints**

- Use proper **HTML boilerplate**:
  - <!DOCTYPE html>
  - <html>, <head>, <body>
- Use:
  - and <ul> correctly
  - for each item
- Add at least **one HTML attribute** (example: title)
- Ensure **proper indentation and readability**

🎯 **Learning Outcome**

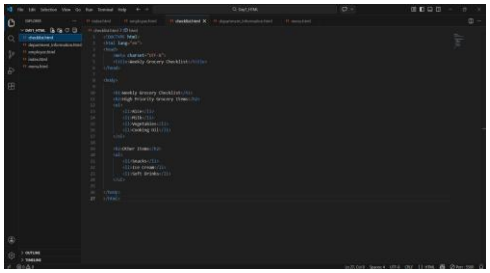
You will be able to:

- Create structured content using HTML lists
- Choose the correct list type based on real-world requirements
- Understand how HTML represents **logical order and grouping**

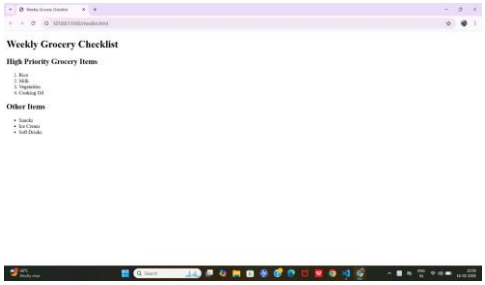
Build confidence in writing basic but meaningful HTML pages

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Weekly Grocery Checklist</title>
</head>
<body>
  <h1>Weekly Grocery Checklist</h1>
  <h2>High Priority Grocery Items</h2>
  <ol>
    <li>Rice</li>
    <li>Milk</li>
    <li>Vegetables</li>
    <li>Cooking Oil</li>
  </ol>
  <h2>Other Items</h2>
  <ul>
    <li>Snacks</li>
    <li>Ice Cream</li>
    <li>Soft Drinks</li>
  </ul>
</body>
</html>
```



OUTPUT:



EXPLANATION:

In this task, we display the page title as a heading, high-priority grocery items using an ordered list, and optional items using an unordered list. Lists (<ol> / with <li>) group items logically, semantic structure ensures readability, and attributes like title provide additional context and accessibility.

Problem 4: Employee Onboarding Page (Level-2)

Scenario
A company wants a **basic onboarding page** for new employees that HR can later style using CSS.

📌 **Requirements**

Use Semantic HTML:

- <header> → Company name & welcome message
- <section> → Employee details
- <article> → Company policies
- <footer> → Contact information

Content Structure

1. **Employee Information (Table)**
    - Employee ID
    - Name
    - Department
    - Joining Date
2. **Company Policies (Ordered List)**
    - Working hours
    - Leave policy
    - Code of conduct
3. **Facilities Provided (Unordered List)**
    - Laptop
    - Internet access
    - Training materials

🛠️ **Technical Constraints**

- Use **semantic tags only** (no for layout)
- Add **meaningful attributes** (title, lang, etc.)
- Proper indentation & readability

🎯 **Learning Outcome**

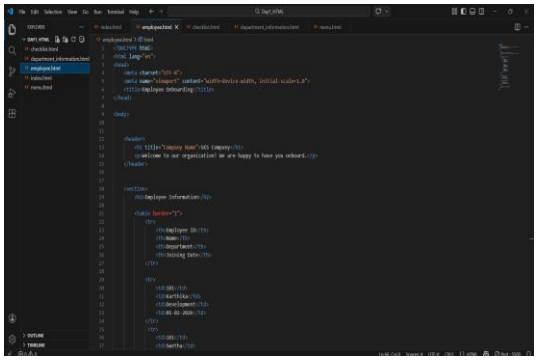
Learners should be able to:

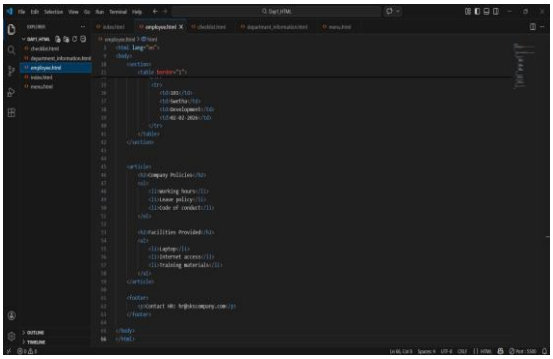
- Explain **why semantic HTML matters**
- Differentiate between structural and non-structural tags
- Build readable, SEO-friendly HTML

CODE:

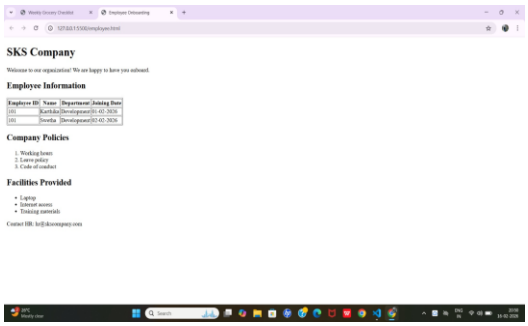
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Employee Onboarding</title>
</head>
<body>
  <header>
    <h1 title="Company Name">SKS Company</h1>
    <p>Welcome to our organization! We are happy to have you onboard.</p>
  </header>
  <section>
    <h2>Employee Information</h2>
    <table border="1">
      <tr>
        <th>Employee ID</th>
        <th>Name</th>
        <th>Department</th>
        <th>Joining Date</th>
      </tr>
<tr>
        <td>101</td>
        <td>Karthika</td>
        <td>Development</td>
        <td>01-02-2026</td>
      </tr>
       <tr>
        <td>101</td>
        <td>Swetha</td>
        <td>Development</td>
        <td>02-02-2026</td>
      </tr>
    </table>
  </section>
<article>
    <h2>Company Policies</h2>
    <ol>
```

```
<li>Working hours</li>
        <li>Leave policy</li>
        <li>Code of conduct</li>
      </ol>
      <h2>Facilities Provided</h2>
      <ul>
        <li>Laptop</li>
        <li>Internet access</li>
        <li>Training materials</li>
      </ul>
    </article>
    <footer>
      <p>Contact HR: hr@skscompany.com</p>
    </footer>
</body>
</html>
```





OUTPUT:



EXPLANATION:

In this task, we use <header> for the company name and welcome message, <section> for employee details, <article> for company policies, and <footer> for contact information. Employee information is displayed in a table, policies in an ordered list, and facilities in an unordered list. Semantic tags and attributes like title and lang ensure structured, accessible, and maintainable content.

Problem 5: College Department Information Page (Level-2)

Scenario

A college wants to create a **basic informational webpage** for one of its departments (e.g., Computer Science, Information Technology).
The page will be used by **students and parents** to understand faculty details, subjects offered, and the weekly timetable before the site is enhanced with CSS and backend features.

📌 **Requirements**

Create an HTML webpage that includes the following sections:

1. **Header**
    - Department Name
    - College Name
2. **Section 1: Faculty Details**
    - Display faculty information in a **table** with columns:
        - Faculty Name
        - Designation
        - Subject Handled
3. **Section 2: Subjects Offered**
    - Display the list of subjects using an **unordered list**
4. **Section 3: Weekly Timetable**
    - Display timetable details in a **table** with columns:
        - Day
        - Subject
        - Time Slot

1. 5. **Footer**
    - College address
    - Contact information

🛠️ **Technical Constraints**

- Use proper **HTML document structure**:
    - <!DOCTYPE html>
    - <html>, <head>, <body>
- Use **semantic HTML elements**:
    - <header>, <section>, <footer>
- Use:
    - <table>, <tr>, <th>, <td>
    - and

- Add meaningful **HTML attributes** such as lang or title
- Avoid CSS and JavaScript (HTML only)

🎯 **Learning Outcome**

You will be able to:

- Build real-world HTML pages with structured content
- Understand how semantic HTML improves readability and maintenance
- Organize information logically using tables and lists
- Prepare HTML content that is ready for CSS styling and backend integration

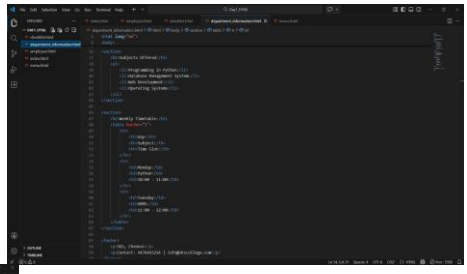
CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Department Information</title>
</head>
<body>
<header>
  <h1>Computer Science Department</h1>
  <h2>SKS College of Engineering</h2>
</header>
<section>
  <h2>Faculty Details</h2>
  <table border="1">
    <tr>
      <th>Faculty Name</th>
      <th>Designation</th>
      <th>Subject Handled</th>
    </tr>
    <tr>
      <td>Dr. kavin</td>
      <td>Professor</td>
      <td>Data Structures</td>
    </tr>
    <tr>
      <td>Ms. Priya</td>
      <td>Assistant Professor</td>
      <td>DBMS</td>
    </tr>
```

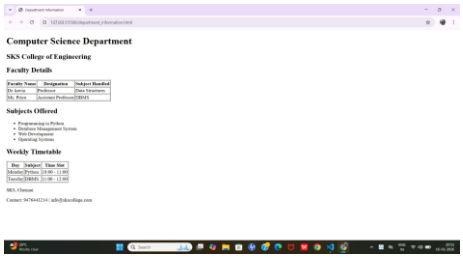
```
</table>
</section>
<section>
  <h2>Subjects Offered</h2>
  <ul>
    <li>Programming in Python</li>
    <li>Database Management System</li>
    <li>Web Development</li>
    <li>Operating Systems</li>
  </ul>
</section>
<section>
  <h2>Weekly Timetable</h2>
  <table border="1">
    <tr>
      <th>Day</th>
      <th>Subject</th>
      <th>Time Slot</th>
    </tr>
<tr>
      <td>Monday</td>
      <td>Python</td>
      <td>10:00 - 11:00</td>
    </tr>
    <tr>
      <td>Tuesday</td>
      <td>DBMS</td>
      <td>11:00 - 12:00</td>
    </tr>
  </table>
</section>
<footer>
  <p>SKS, Chennai</p>
  <p>Contact: 9476443214 | info@skscollege.com</p>
</footer>

</body>
</html>
```

CODE:



OUTPUT:



Computer Science Department

SKS College of Engineering

Faculty Details

Faculty Name	Designation	Subject Handled
Dr. Jarvis	Professor	Data Structures
Dr. Price	Assistant Professor	OOAD

Subjects Offered

- Programming in Python
- Database Management System
- Web Development
- Operating System

Weekly Timetable

Day	Subject	Time Slot
Monday	Python	10:00 - 11:00
Tuesday	OOAD	11:00 - 12:00

MKS, Chennai

Contact: 9476442234 | info@sksclllege.com

EXPLANATION:

In this task, we display the department and college names in <header>, faculty details and timetable in tables, and subjects offered in an unordered list. <section> organizes each content block, and <footer> contains contact information. Semantic tags and attributes like title and lang ensure logical structure, readability, and accessibility, making the page ready for future styling and integration.