

# DAY-1 Hands-On Activities

## 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:
  - o Student Name
  - o Subject
  - o Marks

**Expected Outcome:**

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

## 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)

 **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>`
  - `<ul>` and `<li>`

## **Learning Outcome**

You should be able to:

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

## **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:
  - `<ol>` and `<ul>` correctly
  - `<li>` 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

## **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 <div> 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

## **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

## 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>`
  - `<ul>` and `<li>`
- 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