DAY-3 Hands-On Activities

Problem 1: Personal Profile Card (Level-1)

Scenario

You are building a simple personal profile card for a portfolio website.

The card will display a user's name, role, short bio, and contact button, styled purely using CSS.

📌 Requirements

Create a profile card layout containing:

- Name (heading)
- Role/title
- Short description paragraph
- Contact button

Apply:

- Text formatting (alignment, decoration)
- Font styles (font-family, size, weight)
- Typography enhancements (line-height, letter-spacing)

Use the CSS Box Model:

- Padding for spacing inside the card
- Border to define the card boundary
- Margin to separate the card from the page edges

Add:

- Background color
- Border radius
- Hover effect on the button

🛠️ Technical Constraints

- Use only HTML + CSS
- No images or icons
- No frameworks (Bootstrap, Tailwind, etc.)
- Inline CSS not allowed (use <style> or external CSS)

🎯 Learning Outcome

You should be able to:

- Understand how CSS styles text and fonts
- Apply box model concepts effectively
- Style elements using colors, borders, and spacing
- Improve visual hierarchy using typography

Problem 2: Product Feature List Section (Level-1)

Scenario

You are designing a feature highlight section for a product landing page that lists key features in a visually appealing way.

📌 Requirements

Create a section with:

- Section heading
- List of 4–5 features

Style the list using:

- Custom fonts
- Text color and background color
- Border and padding for each feature item

Use:

- CSS selectors (element, class, descendant)

Apply hover effects on feature items

🛠️ Technical Constraints

- Use unordered list (<ul>)
- No JavaScript
- No layout frameworks
- Only basic HTML structure

🎯 Learning Outcome

You will be able to:

- Practice CSS selectors
- Style lists professionally
- Improve UI consistency

Problem 3: Responsive Blog Layout (Level-2)

Scenario

You are creating a blog homepage that displays articles in a modern responsive layout suitable for desktop, tablet, and mobile screens.

📌 **Requirements**

Create a page layout with:

- Header
- Main content area with multiple blog cards

Use:

- **Flexbox or CSS Grid** for layout
- Box model for spacing

Each blog card should contain:

- Title
- Short description
- Read More button

Apply:

- Background colors
- Borders
- Typography enhancements

Use **media queries** to:

- Display multiple columns on desktop
- Switch to single column on mobile

🛠️ **Technical Constraints**

- Only HTML + CSS
- No CSS frameworks
- No fixed widths (use percentages or flexible units)

🎯 **Learning Outcome**

Learners should be able to:

- Understand Flexbox/Grid layouts
- Apply responsive design principles
- Write effective media queries
- Build real-world page layouts

Problem 4: Responsive Dashboard Layout (Level-2)

Scenario

You are designing a simple admin dashboard layout for a web application.

📌 **Requirements**

Create a layout with:

- Sidebar navigation
- Main content area
- Info cards inside the main section

Use:

- display properties
- Flexbox or Grid for page structure

Style:

- Sidebar with background color
- Cards with borders, padding, and margins

Apply **media queries** to:

- Convert sidebar into top navigation on mobile
- Stack cards vertically on small screens

🛠️ **Technical Constraints**

- HTML + CSS only
- No JavaScript
- No external UI libraries

🎯 **Learning Outcome**

You will be able to:

- Master page layouts using Flexbox/Grid
- Apply modern responsive web design techniques
- Understand how layout adapts across devices
- Build industry-relevant UI structures