CSS Basic

Session 1: Introduction to CSS and Basic Styling

1. Introduction to CSS

- Definition and importance of CSS in web development.

- Overview of how CSS works with HTML to style web pages.

- Brief history and evolution of CSS.

2. Three Ways to Write CSS

- Inline CSS: How to apply styles directly within HTML tags.

- Internal CSS: Using the `<style>` tag within the `<head>` section of an HTML document.

- External CSS: Linking to external stylesheets and best practices for separation of concerns.

3. Selectors

- Basic selectors: element, class, and ID selectors.

- Attribute selectors and pseudo-classes.

- Grouping and combining selectors for efficient styling.

4. Color and Background

- Color: Using color names, HEX codes, RGB, RGBA, HSL, and HSLA.

- Background: Adding background images, setting background size, position, and attachment properties.

- Best practices for choosing colors and creating accessible designs.

5. Width & Height

- Setting dimensions using pixels, percentages, and other units.

- The difference between width/height and min/max-width/height properties.

Session 2: Text and Font Styling

1. Text Alignment

- Aligning text using `text-align` property (left, right, center, justify).

- Vertical alignment techniques.

2. Text Decoration

-Adding and removing text decorations like underlines, overlines, and line-through.

3. Text Transform

- Changing text capitalization with `text-transform` (uppercase, lowercase, capitalize).

4. Text Shadow

- Creating shadows behind text using the `text-shadow` property.

- Understanding shadow color, offset, blur radius, and spread.

5. Font Weight & Size

- Setting font weight from thin to bold using numerical values.

- Adjusting font size with various units (px, em, rem, etc.).

6. Font Style & Family

- Using `font-style` for italics and oblique text.

- Specifying font families, including fallback fonts and web-safe fonts.

Session 3: Box Model and Styling Components

1. Box Model

  - Understanding the box model: content, padding, border, margin.

  - Margin: Setting and calculating margin space around elements.

  - Padding: Adding space inside elements around the content.

  - Border: Styling borders with width, style, and color.

  - Outline: Differences between borders and outlines.

  - Box-shadow: Adding shadows to elements and adjusting properties.

Session 4: Display and Positioning

1. Display Types

- Display block: Characteristics and use cases for block-level elements.

- Display inline: Differences between inline and block elements.

- Display inline-block: Combining block and inline properties.

2. Positioning

- Relative: Positioning elements relative to their normal position.

- Absolute: Positioning elements relative to their nearest positioned ancestor.

- Fixed: Fixing elements relative to the viewport.

- Sticky: Combining relative and fixed positioning based on scroll position.

Session 5: Advanced Styling Techniques

1. Z-index

- Controlling stacking order of elements with the `z-index` property.

2. List Style

- Customizing list markers with **list-style-type** and **list-style-image**.

3. Cursor

- Changing cursor appearance using the **cursor** property (pointer, text, move).

4. Caret Color

- Styling the text cursor (caret) color.

5. Float

- Floating elements and clearing floats.

Session 6: Project - Drawing a Simple Monkey

1. Project Overview

- Introduction to the project and its objectives.

- Overview of the monkey design and required HTML structure.

2. CSS Application

- Applying CSS to style different parts of the monkey illustration.

- Using learned properties (colors, borders, box-shadow, etc.) creatively.

3. Project Completion

- Finalizing the design and ensuring cross-browser compatibility.

- Best practices for clean and maintainable code.

4. Review and Q&A

- Recap of the entire course and key concepts.