

Assignment – Module 9: CSS Selectors

PART A: WRITTEN ASSIGNMENT (Theory / Notes)

Q1. What is a CSS selector? Why are selectors important in CSS?

Q2. Explain **element selector** with syntax and one example.

Q3. Explain **class selector** and **ID selector**.

Write any **two differences** between them.

Q4. What is a **grouping selector**?

Why is grouping selector useful in CSS?

Q5. Explain **nested (descendant) selectors** with an example.

Q6. What are **attribute selectors**?

Explain any **three types of attribute selectors**.

Q7. What are **pseudo-classes**?

Write names of any **four pseudo-classes**.

Q8. What are **pseudo-elements**?

Write names of any **four pseudo-elements**.

Q9. Write the difference between **pseudo-class** and **pseudo-element**.

Q10. Write a short note on **real-life use of CSS selectors** in websites.

PART B: PRACTICAL ASSIGNMENT (Program / Code Writing)

Instruction :

Write complete HTML + CSS code for each program.

Program 1: Element Selector

Task:

Write an HTML and CSS program that uses an **element selector** to:

- Change color of all `<p>` tags
- Change font size of all `<h1>` tags

Program 2: Class Selector

Task:

Create an HTML page with:

- Two paragraphs
- Apply a **class selector** to style only one paragraph

Program 3: ID Selector

Task:

Create an HTML page with:

- One heading
- Apply an **ID selector** to style that heading

Program 4: Grouping Selector

Task:

Write a program that uses a **grouping selector** to apply same color to:

- `<h1>`
- `<h2>`

- <p>
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Program 5: Nested (Descendant) Selector

Task:

Create an HTML page where:

- A <div> contains a <p>
 - Use a nested selector to style **only the paragraph inside the div**
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Program 6: Attribute Selector (Basic)

Task:

Write a program that uses an **attribute selector** to style:

- All <input> elements with type="text"
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Program 7: Attribute Selector (Advanced)

Task:

Create a program that styles:

- All links starting with https
(Hint: use ^= attribute selector)
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Program 8: Pseudo-class Selector

Task:

Write a program that uses pseudo-classes to:

- Change button color on :hover
 - Change input border color on :focus
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Program 9: Structural Pseudo-class

Task:

Create a list and use :nth-child() to:

- Apply different color to even list items

Program 10: Pseudo-element

Task:

Write a program that uses pseudo-elements to:

- Style the first letter of a paragraph
- Add content before a paragraph using ::before

Program 11: Combined Selector Program

Task:

Create an HTML page that uses:

- Class selector
- ID selector
- Pseudo-class
- Pseudo-element

(All in one program)

