1. What are CSS Pseudo-classes and Pseudo-elements?

    a. Pseudo-classes - a keyword added to a selector that specifies a special state of the selected element.
        - It allows you to style elements based on their state, position, or user interactions without modifying the HTML directly.
        - Written in single colon(**:**).
    b. Pseudo-elements - allows you to style specific parts of an element or even add elements without modifying the HTML structure.
        - They are especially used for tasks like adding decorative or content-related styles to elements.
        - These are written with double colons (**: :**).

2. Cite at least examples each (2 for pseudo-class, 2 for pseudo-elements) and present 1 instance of its application.

    a. Pseudo-classes
        1. :hover - Targets an element when the user hovers over it.
        2. :nth-of-type(n) - Selects elements of a specific type based on their order.

    b. Pseudo-elements
        1. ::before - Inserts content before the content of an element.
        2. ::first-letter - Targets the first letter of a block of text for styling.

    c. Instance of Application

        a:hover {
            color: green; /* Changes the link color to green on hover */
        }

        p::first-letter {
            font-size: 2em; /* Makes the first letter of the paragraph larger */
            color: blue;
        }

        -The :hover pseudo-class changes the link color to green when hovered.
        - The ::first-letter pseudo-element enlarges and changes the color of the first letter of the paragraph.

References:

MDN Web Docs. (2025). Pseudo-classes and pseudo-elements - Learn web development | MDN.[online] Available at: https://developer.mozilla.org/en-US/docs/Learn_web_development/Core/Styling_basics/Pseudo_classes_and_elements

www.w3schools.com. (n.d.). CSS Pseudo-elements. [online] Available at: https://www.w3schools.com/css/css_pseudo_elements.asp.