HTML (LAB)

4)a. Simple selector (element, id, class, group, universal)

```html
<!DOCTYPE html>
<head>
   <title>Simple Selectors</title>
   <style>
      body {
         font-family: Arial, sans-serif;
         background-color: #f4f4f4;
      }
      h1 {
         color: blue;
         text-align: center;
      }
      .highlight {
         background-color: yellow;
         font-weight: bold;
      }
      #footer {
         text-align: center;
         color: gray;
      }
   </style>
</head>
<body>
   <h1>Simple Selectors</h1>
   <p class="highlight">This is a class selector example.</p>
   <p id="footer">This is an ID selector example.</p>
</body>
</html>
```

OUTPUT:

HTML (LAB)

4) b. Combinator selector (descendant, child, adjacent sibling, general sibling) ?

```html
<!DOCTYPE html>
<head>
   <title>Combinator Selectors</title>
   <style>
     main p {
        margin: 1em 0;
     }
     main>p:first-child {
        color: green;
     }
     h2+p {
        color: purple;
     }
     h3~p {
        color: brown;
     }
   </style>
</head>
<body>
   <main>
     <h2>Child and Adjacent Selectors</h2>
     <p>This paragraph is a child.</p>
     <h3>Sibling Selectors</h3>
     <p>This paragraph is adjacent.</p>
     <p>This paragraph is a general sibling.</p>
   </main>
</body>
</html>
```

OUTPUT:

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4)c. Pseudo-class selector

```html
<!DOCTYPE html>

<head>
    <title>Pseudo-Class Selectors</title>
    <style>
        a:hover {
            color: red;
        }

        p:first-of-type {
            font-style: italic;
        }
    </style>
</head>

<body>
    <a href="#">Hover over this link</a>
    <p>This is the first paragraph in its parent.</p>
</body>

</html>
```

OUTPUT:

HTML (LAB)

4) d. Pseudo-element selector

```html
<!DOCTYPE html>
<head>
   <title>Pseudo-Element Selectors</title>
   <style>
     p::first-line {
        font-weight: bold;
     }


     p::before {
        content: "→ ";
     }
   </style>
</head>

<body>
   <p>This demonstrates pseudo-elements like ::before and ::first-line.</p>
</body>

</html>
```

OUTPUT:

HTML (LAB)

```html
    <footer>
        <p>&copy; 2025 Media Embedding Example</p>
    </footer>

</body>

</html>
```

OUTPUT:

HTML (LAB)

4) e. Attribute selector

```html
<!DOCTYPE html>

<head>

    <title>Attribute Selectors</title>

    <style>

        a[href] {

            color: blue;

            text-decoration: none;

        }

        input[type="text"] {

            border: 1px solid #ccc;

        }

        input[required] {

            border-color: red;

        }

    </style>   </head>

<body>

    <a href="https://example.com">This is a link with an href attribute.</a>

    <form>

        <input type="text" placeholder="Text input">

        <input type="text" required placeholder="Required input">

    </form>   </body>   </html>
```

OUTPUT: