MILSETONE 5

- Selectors and Combinators
- Pseudo Classes and Elements
- !important
- CSS Functions
- Comments

1. Selectors and Combinators:

- Simple selectors
- Combinator selectors
- Pseudo class selectors
- Pseudo element selectors
- Attribute selectors
 - o Simple selector select elements based on name, id, class
 - hello p{ color: red;} → p is a element selector
 - hello
 #para1{ color: red;} → para1 is id selector
 - hello
 .para1{ color: red;} → para1 is class selector
 - selector selects all HTML elements on page *{ color: red;}
 - Grouping selector h1, p, h2{ color: red;}
 - Combinator selector
 - descendant selector (space)
 - child selector (>)
 - adjacent sibling selector (+)
 - general sibling selector (~)
 - Descendant selector matches all elements that are descendants of a specified element

<pre><!--DDCTYPE html--> drtml> dead cstyle> dry p {</pre>	Descendant Selector The descendant selector matches all elements that are descendants of a specified element.
background-color; yellow; } <pre> { /style> </pre> <pre> /pead> dody)</pre>	Paragraph I in the div. Paragraph 2 in the div.
	Paragraph 3 in the div.
<h2>Descendant Selector</h2>	Paragraph 4. Not in a div.
cp)The descendant selector matches all elements that are descendants of a specified element.	Paragraph 5. Not in a div.
<pre>cdivo opParagraph 1 in the div, opParagraph 2 in the div, <pre>cpParagraph 2 in the div, <pre>cpdivo <pre>cpdivo <pre>cpdivo </pre> <pre>cpdivo</pre> <pre>cpdivo</pre></pre></pre></pre></pre>	
<pre>Paragraph 4. Not in a div. Paragraph 5. Not in a div.</pre>	
(body) (html)	

As p1, p2, p3 is only under div. they have been changed to background-color yellow

<div>

```
Child selector (>)
  div > p { background-color: yellow; }
   <div>
    Paragraph 1 in the div.
   Paragraph 2 in the div.
    <section>
     <!-- not Child but Descendant -->
     Paragraph 3 in the div (inside a section
  element).
    </section>
    Paragraph 4 in the div.
   </div>
■ General sibling selector (~)- it selects next siblings of
  element
  div ~ p {
    background-color: yellow;
   } <div>
    Paragraph 2.
   </div>
   Paragraph 3.
   Some code.
  Paragraph 4.
■ Adjacent sibling selector (+) – selects an element that is
  immediately after another specific element
   div+p{ background-color: yellow};
```

```
para 1 </div>para2
```

2. Pseudo classes

- Pseudo-classes are used to define a special state of an element SYNTAX: selector: pseudo-class {property: value;}
 EX: For anchor tag pseudo classes
 a:link→a:visited→a:hover→a:active. Because active has least priority
- :first-child matches an element that is first child of any element p:first-child{color: blue};

```
<div>
hello
</div>
```

3. Pseudo elements

• Pseudo elements are used to style a specific part of an element.

```
Syntax: selector::pseudo-element {
    property: value;
}
```

• ::after, ::before, ::marked, ::selection:: first-line::first-letter

4. !important

- The !important rule in CSS is used to add more importance to a property/value than normal.
- It will override all previous styling rule for that specific property on that element.

5. CSS Functions:

- 1. " (" attr(href) ")" adds URL which is taken from the HTML element.
- 2. conic-gradient()
- 3. counter()
- 4. linear-gradient()
- 5. max()
- 6. min()
- 7. rgba()

Pseudo classes –

- defined with single colon (:)
- Used to style target state like hover, link, visited, first-child etc.,
 - o :active when clicking whether the element is active/ not. Used in a, button
 - :fullscreen matches an element that is in fullscreen mode requestFullScreen() API is used in JS.
 - o :any-link combination of :link(unvisited) & :visited
 - :autofill if input is filled automatically by PC/ lap. Then its border/ smth can be changed
 - :checked matches when an element such as checkboxes and radio button are toggled on
 - :modal used to open and style dialog box created with <dialog> tag → uses JS API showmodal()
 - o Input tags have
 - :enabled
 - :disabled
 - :read-only
 - :read-write
 - :placeholder-shown
 - checked, :default → used to style/ highlight when a field is checked/ not.
 - **EX:** <input id="secret" name="secret" type="text" value="test" pattern="[a-z]+" /> **CSS** input:invalid{ color:red;}
 - :in-range, :out-range \rightarrow to check and validate the contents
 - :focus-within → to focus the complete element. No only input field.
 But also label by CSS label:focus-within{font-weight:bold};

Pseudo elements -

- defined with two colon (::)
- Used to target specific part of an element. Like ::first-line, ::first-letter
 - EX: ::marker { color: red;}

 Coffee
 Tea
 Milk

OUTPUT:

- CoffeeTeaMilk1. First2. Second3. Third
- o EX: ::selection {
 color: red;
 background: yellow;
 }

