CASCADING STYLE SHEET (CSS)



Class 01 Introduction to CSS (Cascading Style Sheet)

What is CSS?

- CSS stands for Cascading Style Sheets.
- Tis used to style and layout web pages.
- Tt controls the color, font, size, spacing, and positioning of HTML elements.

Why Use CSS?

- Separates content from design (HTML for structure, CSS for style).
- Improves maintainability of web pages.
- **Enhances user experience with better design.**
- **○** Reduces code duplication using reusable styles.

Why the word "cascade"?

CSS follows a cascading order, meaning:

- Multiple styles can apply to an element.
- The most specific or latest rule wins if there are conflicts.
- Rules are inherited from parent elements unless overridden.

How Cascading Works?

When multiple CSS rules apply to an element, the browser follows these three principles to determine the final style:

1. Source Order (Last Rule Wins)

If two rules have the same specificity, the one that comes later in the stylesheet is applied.

```
p {
  color: blue;
}
p {
  color: red; /* This rule applies because it comes later */
}
```

2. Specificity (More Specific Wins)

If two rules apply to the same element, the more specific selector takes priority.

```
p { color: blue; } /* Less specific */
#unique { color: red; } /* More specific */
```

CASCADING STYLE SHEET (CSS)



3. Importance (!important Wins Over All)

The !important declaration overrides other rules, even those with higher specificity.

```
p {
  color: blue !important;
}
p {
  color: red;
}
```

Ways to Add CSS to HTML?

There are three ways to apply CSS:

- 1. Inline CSS
- 2. Internal CSS
- 3. External CSS

1. Inline CSS

Added directly inside an HTML tag using the style attribute.

```
Hello, CSS!
```

2. Internal CSS

Defined inside a <style> tag within the <head> section of an HTML document.

```
<head>
  <style>
    p {
        color: blue;
        font-size: 20px;
    }
    </style>
    </head>
```

CASCADING STYLE SHEET (CSS)



3. External CSS

Stored in a separate .css file and linked to the HTML document.

CSS Syntax

CSS follows a rule-based structure. Each rule consists of a selector and a declaration block. Selectors pick the HTML elements, while declaration blocks contain pairs of properties and values.

The general syntax for writing CSS.

```
selector {
  property: value;
}
```

Example

```
h1 {
  color: red;
  font-size: 24px;
}
```

```
h1 → Selector (the element to style).
```

```
color → Property (what to change).
```

red → Value (the change applied).