Chapter 1 - Creating our first CSS Website

We will create our first CSS website in this section.

What is DOM?

DOM stands for document object model. When a page is loaded, the browser creates a DOM of the page which is constructed as a tree of Objects.

HTML id and class attributes

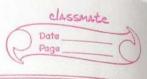When an HTML element is given an id, it serves as a unique identifier for that element

On the other hand, when an HTML element is given a class, it now belongs to that class. More than one elements can belong to a single class but every element must have a unique id (if assigned).

We can add multiple classes to an element like this

unique id

```
< div id = "first" class = " C1 C2 C3 ">
    o o o
</div>
```

↳ multiple classes followed by spaces

Three ways to add CSS to HTML

There are 3 ways to add CSS to HTML:

1. < Style > tag → Adding < Style > o o o </style> to HTML
2. Inline CSS → Adding CSS using style attribute
3. External CSS → Adding a stylesheet (.css) to HTML using < link > tag.

CSS Selectors

A CSS selector is used to select an HTML element(s) for styling

```
        → Selector
body {
    color : red ;  → Declaration (property : value)
    background : pink ;  → Declaration
}
```

Element selector

It is used to select an element based off the tagname
for example :

```
h2 {
    color : blue ;
}
```

id selector

It is used to select an element with a given id
for example :

```
#first {              → # is used to target by id
    Color : white ;
    background : black ;
}
```

Class selector

It is used to select an element with a given class
for example :

```
.red {
    background : red ;
}
```

Important Notes :
→ We can group selectors like this :

```
h1 , h2 , h3, div {
        Color : blue;  → h1, h2, h3 and div will be
        }
```

→ We can use element·class as a selector like this :
```
P.red {
    Color : red;      → all paragraphs of        will get color of red
    }
```

→ * Can be used as a universal selector to select all the elements

```
* {
   margin : 0 ;
   padding : 0 ;
   }
```

→ An inline style will override external and internal styles

Comments in CSS
Comments in CSS is text which is not parse and is thus ignored