

Css selectors :Element Selector

Here, all <p> elements on the page will be center-aligned, with a red text color:

```
P{
text-align: center;
color: red;
}
```

ID Selector

The id selector uses the id attribute of an HTML element to select a specific element.

The id of an element is unique within a page, so the id selector is used to select one unique element!

To select an element with a specific id, write a hash (#) character, followed by the id of the element.

```
#para1 {
text-align: center;
color: red;
}
```

The CSS rule below will be applied to the HTML element with id="para1":Class Selector

The class selector selects HTML elements with a specific class attribute.

To select elements with a specific class, write a period (.) character, followed by the class name.

```
.center {
text-align: center;
color: red;
}
```

In this example all HTML elements with class="center" will be red and center-aligned:

```
p.center {
text-align: center;
color: red;
}
```

<p class="center large">This paragraph refers to two classes.</p>

In this example the <p> element will be styled according to class="center" and to class="large":

In HTML, id and class are both attributes used to apply styles to specific elements on a web page. However, they have some key differences: id is used to uniquely identify an element, while class is used to group elements that share the same style. An id can only be used once per page, while a class can be used multiple times. id should be used for elements that are unique, such as a navigation bar or a footer, while class should be used for elements that are repeated or similar in style, such as headings or paragraphs. In CSS, id is referenced with a "#" symbol followed by the id name, while class is referenced with a "." symbol followed by the class name.

Example

```
<!DOCTYPE html>
<html>
```

```
<head>
  <title>Id and Class Example</title>
  <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
  <h1 id="main-heading">Welcome to my website</h1>
  <p class="intro">Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed pulvinar ornare
sem, ac tristique odio rutrum eu.</p>
  <div id="container">
    <div class="box red">Red Box</div>
    <div class="box green">Green Box</div>
    <div class="box blue">Blue Box</div>
  </div>
</body>
</html>
```

CSS

```
#main-heading {
  color: #333;
  font-size: 36px;
}
```

```
.intro {
  color: #666;
  font-size: 18px;
}
```

```
#container {
  display: flex;
  flex-wrap: wrap;
}
```

```
.box {
  width: 200px;
  height: 200px;
  margin: 10px;
  border: 1px solid #ccc;
}
```

```
.red {
  background-color: #ff9999;
}
```

```
.green {
  background-color: #99ff99;
}
```

```
.blue {  
    background-color: #9999ff;  
}
```

Exercise :-

1). External CSS

HTML document

```
<!DOCTYPE html>  
<html>  
<head>  
    <title>Gym Website</title>  
    <link rel="stylesheet" type="text/css" href="style1.css">  
</head>  
<body>  
    <header>  
        <nav>  
            <ul>  
                <li><a href="#">Home</a></li>  
                <li><a href="#">Contact</a></li>  
            </ul>  
        </nav>  
    </header>  
    <main>  
        <h1>Welcome to Our Gym</h1>  
        <div class="photos">  
              
              
              
              
        </div>  
    </main>  
</body>  
</html>
```

CSS

```
body {  
    margin: 0;  
    padding: 0;  
    font-family: Arial, sans-serif;  
}
```

```
header {  
    background-color: #333;  
    color: #fff;
```

```
padding: 10px;  
}
```

```
nav ul {  
  list-style: none;  
  margin: 0;  
  padding: 0;  
}
```

```
nav li {  
  display: inline-block;  
  margin-right: 20px;  
}
```

```
nav a {  
  color: #fff;  
  text-decoration: none;  
}
```

```
main {  
  margin: 20px;  
}
```

```
h1 {  
  font-size: 36px;  
  margin-bottom: 20px;  
}
```

```
.photos {  
  display: flex;  
  flex-wrap: wrap;  
  justify-content: center;  
}
```

```
.photos img {  
  width: 300px;  
  height: 200px;  
  object-fit: cover;  
  margin: 10px;  
  border-radius: 5px;  
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.3);  
  transition: all 0.3s ease;  
}
```

```
.photos img:hover {  
  transform: scale(1.1);  
}
```

```
    box-shadow: 0 0 20px rgba(0,0,0,0.5);
}
```

2).

```
<!DOCTYPE html>
<html>
<head>
  <title>Shop Home</title>
  <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
  <header>

    <nav>
      <ul>
        <li><a href="home.html">Home</a></li>
        <li><a href="about.html">About</a></li>
        <li><a href="#">Shop</a></li>
        <li><a href="#">Contact</a></li>
      </ul>
    </nav>
  </header>

  <main>
    <h1>Welcome to Our Shop</h1>
    <p>We offer a wide range of products to suit your needs. Browse our online store to find
what you're looking for.</p>
  </main>
</body>
</html>
```

CSS

```
/* Reset default browser styles */
```

```
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: Arial, sans-serif;
}
```

```
/* Set background color and font styles */
```

```
body {
  background-color: #f5f5f5;
  color: #333;
  font-size: 16px;
```

```
    line-height: 1.5;
}

/* Style the header */
header {
    background-color: #fff;
    box-shadow: 0 2px 4px rgba(0,0,0,0.2);
    padding: 20px;
}

/* Style the navigation menu */
nav ul {
    list-style: none;
    display: flex;
    align-items: center;
    justify-content: space-between;
}

nav li {
    margin: 0 10px;
}

nav a {
    color: #333;
    text-decoration: none;
    font-weight: bold;
    font-size: 18px;
    transition: color 0.2s ease-in-out;
}

nav a:hover {
    color: #e91e63;
}

/* Style the banner image */
header img {
    display: block;
    margin: 0 auto;
    max-width: 100%;
    height: auto;
}

/* Style the main content */
main {
    max-width: 800px;
    margin: 0 auto;
}
```

```
padding: 20px;  
}
```

```
h1 {  
  font-size: 36px;  
  font-weight: bold;  
  margin-bottom: 20px;  
}
```

```
p {  
  margin-bottom: 20px;  
}
```