**Experiment no 3**

**3.** Develop an external style sheet named as “style.css” and provide different styles for h2, h3, hr, p, div, span, time, img & a tags. Apply different CSS selectors for tags and demonstrate the significance of each.

**STYLE.HTML**

<!DOCTYPE html>

<html>

<head>

<link rel="stylesheet" type="text/css" href="styles.css">

<title>Sample Styled Page (No Div)</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<main id="main-content">

<h2>Welcome to Our Styled Page</h2>

<p>This is a paragraph right after an h2. It demonstrates the adjacent sibling selector.</p>

<h3>Hover over me!</h3>

<hr>

<p >This paragraph has a lang attribute, demonstrating the attribute selector.</p>

<p>Here's a <span class="highlight">highlighted</span> word using the class selector.</p>

<section>

<p>This paragraph is inside a section, showing the descendant selector.</p>

<span>This span is a direct child of the section.</span>

</section>

<p>The current date and time: <time datetime="2023-08-31">August 31, 2023</time></p>

<p>Notice how the first letter of each paragraph is styled differently.</p>

<article class="special">

<p>This paragraph is inside an article with class="special".</p>

</article>

<img src="https://www.w3schools.com/images/w3schools\_green.jpg" alt="A placeholder image" >

<p>Check out this <a href=”https://vtu.ac.in/” target=”\_blank”>link</a> to see different link states.</p>

</main>

</body>

</html> Style.css

/\* Element Selector \*/

**STYLES.CSS**

/\* Element Selector \*/ h2 {

color: #2c3e50;

font-family: 'Arial', sans-serif; border-bottom: 2px solid #3498db; padding-bottom: 10px;

}

/\* Element Selector with Pseudo-class \*/ h3:hover {

color: #e74c3c; cursor: pointer;

transition: color 0.3s ease;

}

/\* Element Selector \*/ hr {

border: 0; height: 1px;

background-image: linear-gradient(to right, rgba(0, 0, 0, 0), rgba(0, 0, 0,

0.75), rgba(0, 0, 0, 0));

}

/\* Element Selector with Attribute \*/ p[lang] {

font-style: italic;

}

/\* Class Selector \*/

.highlight {

background-color: #f1c40f; padding: 5px;

}

/\* ID Selector \*/ #main-content {

max-width: 800px; margin: 0 auto; padding: 20px;

background-color: #ecf0f1;

}

/\* Descendant Selector \*/ div p {

line-height: 1.6; margin-bottom: 15px;

}

/\* Child Selector \*/ div > span {

font-weight: bold; color: #16a085;

}

/\* Adjacent Sibling Selector \*/

h2 + p {

font-size: 1.1em; color: #7f8c8d;

}

/\* Attribute Selector \*/ time[datetime] {

color: #8e44ad; font-weight: bold;

}

/\* Pseudo-element Selector \*/ p::first-letter {

font-size: 1.5em; font-weight: bold; color: #c0392b;

}

/\* Multiple Selectors \*/ img, a {

border: 1px solid #bdc3c7; padding: 5px;

}

/\* Pseudo-class Selector for Links \*/ a:link, a:visited {

color: #3498db;

text-decoration: none;

}

a:hover, a:active { color: #e74c3c;

text-decoration: underline;

}

/\* Attribute Selector for Images \*/ img[alt] {

max-width: 100%; height: auto;

}

/\* Combining Selectors \*/ div.special p {

text-indent: 20px; color: #27ae60;

}