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.

This program demonstrates how to use CSS to style various HTML elements, including headings, paragraphs, spans, time elements, images, and links. The styles enhance the visual presentation of the webpage, making it more appealing and user-friendly.

**This is CSS part , create a different file for this and name it as .CSS**

/\* style.css \*/

/\* Tag Selector for h2 \*/

h2 {

color: #2c3e50; /\* Dark blue \*/

font-family: 'Arial', sans-serif; /\* Arial font \*/

border-bottom: 2px solid #3498db; /\* Blue border \*/

padding-bottom: 10px;

margin-bottom: 20px;

}

/\* **h2**: This selector targets all <h2> elements.

**color**: Sets the text color to dark blue.

**font-family**: Specifies the font to use (Arial) with a fallback to any sans-serif font.

**border-bottom**: Adds a solid blue border at the bottom of the header.

**padding-bottom**: Adds space inside the bottom of the header.

**margin-bottom**: Adds space below the header. \*/

/\* Tag Selector for h3 \*/

h3 {

color: #2980b9; /\* Lighter blue \*/

font-family: 'Verdana', sans-serif; /\* Verdana font \*/

margin: 15px 0; /\* Margin above and below \*/

}

/\* **h3**: Targets all <h3> elements.

**color**: Sets the text color to a lighter blue.

**font-family**: Specifies the font to use (Verdana).

**margin**: Adds 15 pixels of space above and below the heading. \*/

/\* Universal Selector for hr \*/

hr {

border: 0;

border-top: 2px solid #bdc3c7; /\* Light gray top border \*/

margin: 20px 0; /\* Margin above and below \*/

}

/\* **hr**: Targets horizontal rule elements.

**border**: Resets the border to none.

**border-top**: Adds a solid light gray border on top.

**margin**: Adds space above and below the line.\*/

/\* Tag Selector for p \*/

p {

color: #34495e; /\* Grayish-blue \*/

font-size: 1em; /\* Regular font size \*/

line-height: 1.5; /\* Line height \*/

}

/\* Class Selector for div \*/

.div-style {

background-color: #f9ebc3; /\* Light yellow \*/

padding: 15px; /\* Padding inside div \*/

border-radius: 5px; /\* Rounded corners \*/

}

/\* **.div-style**: Targets any <div> element with the class div-style.

**background-color**: Sets the background color to light yellow.

**padding**: Adds space inside the <div>.

**border-radius**: Rounds the corners of the <div>. \*/

/\* Tag Selector for span \*/

span {

color: #16a085; /\* Teal color \*/

font-style: italic; /\* Italic \*/

}

/\* Tag Selector for time \*/

time {

font-family: 'Courier New', monospace; /\* Monospace font \*/

color: #9b59b6; /\* Purple \*/

display: block; /\* Block display \*/

margin: 10px 0; /\* Margin above and below \*/

}

/\* Class Selector for img \*/

img {

max-width: 100%; /\* Responsive image \*/

height: auto; /\* Maintain aspect ratio \*/

border-radius: 8px; /\* Rounded corners \*/

}

/\* Attribute Selector for a \*/

a {

color: #2980b9; /\* Blue color \*/

text-decoration: none; /\* No underline \*/

}

/\* Pseudo-class Selector for a:hover \*/

a:hover {

text-decoration: underline; /\* Underline on hover \*/

color: #3498db; /\* Change color on hover \*/

}

**NOTE**

**HTML File: Create a different file for this and name it as .html**

**Both CSS and HTML file should be in the same directory or folder.**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>CSS Styles Demonstration</title>

<link rel="stylesheet" href="style.css"> <!-- Link to your CSS file -->

</head>

<body>

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

<h3>Subheading</h3>

<div class="div-style">

<p>This paragraph is a normal text paragraph to demonstrate the p tag styling. The first line of this paragraph will be bold and light gray.</p>

<p>This is another paragraph.</p>

<span>This text is italicized.</span>

<br>

<time datetime="2023-10-23">October 23, 2023</time>

<br>

<img src="images.jpg" alt="Example Image">

</div>

<hr>

<a href="https://vtu.ac.in/="Example Link">VTU Website</a>

</body>

</html>

**Explanation of How CSS Styles Are Applied:**

**<!DOCTYPE html>**: Declares the document type and version (HTML5).

**<html lang="en">**: The root element of the HTML document, with lang set to English.

**<head>**: Contains metadata and links to stylesheets.

* **<meta charset="UTF-8">**: Sets the character encoding to UTF-8.
* **<meta name="viewport" content="width=device-width, initial-scale=1.0">**: Ensures responsiveness on mobile devices.
* **<title>CSS Styles Demonstration</title>**: Sets the title of the webpage shown in the browser tab.
* **<link rel="stylesheet" href="style.css">**: Links to the external CSS file for styling.

**<body>**: Contains the content of the webpage.

* **<h2>Welcome to My Styled Page</h2>**: Main heading of the page.
* **<h3>Subheading</h3>**: A subheading below the main heading.
* **<div class="div-style">**: A container with a specific style defined in the CSS.
  + **<p>**: Two paragraphs demonstrating styling. The first includes a descriptive text.
  + **<span>This text is italicized.</span>**: A span for italicized text.
  + **<br>**: Line break for spacing.
  + **<time datetime="2023-10-23">October 23, 2023</time>**: Displays a date with additional semantic meaning.
  + **<img src="images.jpg" alt="Example Image">**: An image with an alt attribute for accessibility.
* **<hr>**: A horizontal rule that visually separates content.
* **<a href="https://vtu.ac.in/">Example Link</a>**: A hyperlink to an external site.