Task 2-Inline, Internal, and External CSS (Gemini)

**Inline CSS**

* **Definition:** Styles are directly applied to individual HTML elements using the style attribute.
* **Example:**

<h1 style="color: blue; font-size: 30px;">This is a heading</h1>

* **Advantages:**
  + Provides granular control over specific elements.
  + Useful for quick styling changes or simple styles.
* **Disadvantages:**
  + Makes HTML code less readable and maintainable.
  + Difficult to manage styles for multiple elements.
  + Not suitable for large-scale projects.

**Internal CSS**

* **Definition:** Styles are defined within a <style> tag inside the <head> section of an HTML document.
* **Example:**

<!DOCTYPE html>

<html>

<head>

<style>

h1 {

    color: red;

    font-size: 24px;

}

</style>

</head>

<body>

<h1>This is a heading</h1>

</body>

</html>

* **Advantages:**
  + Improves code organization and readability.
  + Easier to manage styles for multiple elements within a single document.
  + Suitable for smaller projects or specific styling needs.
* **Disadvantages:**
  + Styles are limited to the current HTML document.
  + Not ideal for large-scale projects with multiple pages.

**External CSS**

* **Definition:** Styles are defined in a separate .css file and linked to the HTML document using the <link> tag.
* **Example:**

<!DOCTYPE html>

<html>

<head>

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

</head>

<body>

<h1>This is a heading</h1>

</body>

</html>

styles.css:

h1 {

    color: green;

    font-size: 18px;

}

* **Advantages:**
  + Separates content from presentation, improving code organization and maintainability.
  + Reusable styles across multiple HTML pages.
  + Ideal for large-scale projects with complex styling requirements.
* **Disadvantages:**
  + Requires additional HTTP requests to load the CSS file, potentially affecting page load speed.
  + May be less convenient for small changes.

**Demonstrating All Three Methods**

<!DOCTYPE html>

<html>

<head>

<title>CSS Methods Demonstration</title>

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

</head>

<body>

<h1 style="color: blue; font-size: 30px;">Inline CSS</h1>

<h2 style="color: red;">Inline CSS</h2>

<style>

h3 {

    color: green;

    font-size: 24px;

}

</style>

<h3>Internal CSS</h3>

<h1>External CSS</h1>

<h2>External CSS</h2>

</body>

</html>