### Task 7- Online Fonts and Favicon (ChatGPT) **What are Online Fonts?**

Online fonts, also known as web fonts, are fonts that are hosted on the internet and can be used in web design without needing to be installed on a user's device. They allow for greater typographic variety and flexibility in web design, enabling designers to choose unique fonts that enhance the aesthetic of their websites.

**Integrating Google Fonts into a Website**

Google Fonts is a popular service that provides a wide variety of free fonts for web use. To integrate Google Fonts into your website, follow these steps:

1. **Choose a Font**:
   * Visit the [Google Fonts website](https://fonts.google.com).
   * Browse and select the font(s) you want to use.
2. **Get the Embed Link**:
   * Click on the font you chose, then click on the "+ Select this style" button.
   * A panel will appear at the bottom of the page. Click on it to see the "Embed" tab.
   * Copy the <link> tag provided.
3. **Add the Link to Your HTML**:
   * Paste the <link> tag into the <head> section of your HTML document.
4. **Apply the Font in CSS**:
   * Use the font in your CSS by specifying it in the font-family property.

**Example HTML Document Using Google Fonts**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Using Google Fonts</title>

    <link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;700&display=swap" rel="stylesheet"> <!-- Link to Google Font -->

    <style>

        body {

            font-family: 'Roboto', sans-serif; /\* Apply the Google Font \*/

            margin: 20px;

            background-color: #f0f0f0;

            color: #333;

        }

        h1 {

            font-weight: 700; /\* Bold weight \*/

        }

        p {

            font-weight: 400; /\* Regular weight \*/

        }

    </style>

</head>

<body>

    <h1>Welcome to My Website</h1>

    <p>This is a sample paragraph using the Roboto font from Google Fonts.</p>

</body>

</html>

**What is a Favicon?**

A favicon (short for "favorite icon") is a small icon associated with a particular website or web page. It typically appears in the browser tab, bookmark menu, and address bar, helping users visually identify the site. Favicons enhance branding and improve user experience.

**Adding a Favicon to a Web Page**

To add a favicon to your web page, follow these steps:

1. **Create or Choose a Favicon**:
   * The recommended size for a favicon is 16x16 pixels, but you can use larger sizes for different contexts (like high-resolution displays).
   * Save the favicon image in .ico, .png, or .svg format.
2. **Place the Favicon in Your Website's Root Directory**:
   * Upload your favicon file to your website's root directory or a specific folder like /images/.
3. **Add the Favicon Link to Your HTML**:
   * Use the <link> tag in the <head> section of your HTML document to reference the favicon file.

**Example HTML Code to Add a Favicon**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>My Website with Favicon</title>

    <link rel="icon" href="favicon.ico" type="image/x-icon"> <!-- Link to the favicon -->

</head>

<body>

    <h1>Welcome to My Website</h1>

    <p>This website has a favicon!</p>

</body>

</html>

**Summary**

* **Online Fonts**: Fonts that are hosted online, allowing for diverse typography in web design.
* **Google Fonts Integration**: Involves selecting a font, embedding the link in the HTML document, and applying it via CSS.
* **Favicon**: A small icon representing a website, enhancing branding and usability.
* **Implementation**: Adding the favicon to the <head> section using a <link> tag.