Experiment no 1

Aim: Apply fundamental design principles to create a visually appealing and user-friendly frontend interface using HTML and CSS.

Theory:

Introduction on to HTML and CSS:

HTML (HyperText Markup Language) and CSS (Cascading Style Sheets) are the fundamental technologies used for crea ng web pages. HTML structures the content, while CSS enhances its presenta on and styling.

1. HTML (HyperText Markup Language)

Definition:

HTML is a **markup language** used to structure web pages using various elements like headings, paragraphs, images, and links.

Important Tags Used:

Tag	Description
<header>	Defines the header section with the website title
<nav>	Creates a navigation menu for easy access to sections
<section>	Divides content into different sections like Home, About, Skills, and Contact
<h1> , <h2>	Headings for section titles
<p>	Paragraphs for descriptive text
<u1> ,	Used for listing skills
<img>	Displays the profile image in the About section
<footer>	Defines the footer with copyright information

2. CSS (Cascading Style Sheets)

Definition:

CSS is used to style the webpage, making it visually appealing and responsive.

Key CSS Properties Used:

Property	Description
scroll-behavior: smooth;	Enables smooth scrolling when navigating
display: flex;	Aligns image and text side by side in the About section
width, border-radius	Controls image size and shape
background-color, color	Sets background and text colors
box-shadow, border-radius	Adds styling effects to sections

3. Relationship Between HTML and CSS

- HTML structures the content, while CSS enhances its appearance.
- CSS ensures a responsive design, making the website look good on all devices.
- Using external CSS keeps the code organized and maintainable.

Code for HTML:

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Ankita Kukreja - Portfolio</title>

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

<style>

html {

scroll-behavior: smooth;

}

.about-content {

display: flex;

align-items: center;

justify-content: space-between;

}

.about-text {

width: 60%;

}

.profile-img {

width: 30%;

border-radius: 10px;
```

```
}

</style>

</head>

<body>

<header>

<h1>Ankita Kukreja</h1>

<p>BTech in Computer Engineering</p>

</header>

<nav>

<ul>

<li><a href="#home">Home</a></li>

<li><a href="#about">About</a></li>

<li><a href="#skills">Skills</a></li>

<li><a href="#contact">Contact</a></li>

</ul>

</nav>

<!-- Home Section -->

<section id="home">

<div class="home-content">

<h2>Hi, I'm Ankita Kukreja!</h2>

<p>A <strong>Computer
Engineering</strong> student at
<strong>Vivekanand Education Society,
Mumbai</strong>, exploring <strong>web
development, programming, and
design</strong>.</p>

</div>
```

```html
</section>

<!-- About Me Section -->

<section id="about">

<h2>About Me</h2>

<div class="about-content">

<div class="about-text">

<p>Hi, I'm Ankita Kukreja, a Computer Engineering student at Vivekanand Education Society, Mumbai. I'm passionate about <strong>web development, programming, and UI/UX design</strong>. With experience in <strong>C, Java, Python, HTML, CSS</strong>, and a strong foundation in <strong>Data Structures</strong>, I enjoy building projects that enhance my skills.</p>

<p>I also have an interest in UI/UX design, working with <strong>Figma and Canva</strong> to create visually appealing and user-friendly interfaces. Currently, I'm learning <strong>full-stack web development</strong> and love collaborating on projects to expand my knowledge.</p>

<p>I believe in continuous learning and teamwork, striving to create solutions that not only meet expectations but exceed them. If you'd like to collaborate or learn more about my work, feel free to reach out!</p>

</div>

<img src="portfolio.jpg" alt="Ankita Kukreja" class="profile-img">

</div>
```

```html
</section>

<!-- Skills Section -->

<section id="skills">

<h2>Skills</h2>

<ul>

<li><strong>Programming:</strong> C, Java, Python</li>

<li><strong>Web Development:</strong> HTML, CSS (Learning full-stack)</li>

<li><strong>UI/UX Tools:</strong> Canva, Figma</li>

<li><strong>Data Structures & Algorithms</strong></li>

<li><strong>Collaboration & Teamwork</strong></li>

</ul>

</section>

<!-- Contact Section -->

<section id="contact">

<h2>Contact</h2>

<p><strong>Email:</strong> 2023.ankita.kukreja@ves.ac.in</p>

<p><strong>Phone:</strong> +91 xxxxx xxxxx</p>

</section>

<footer>

<p>&copy; 2025 Ankita Kukreja | All Rights Reserved</p>
```

```html
</footer>

</body>

</html>
```

Code of CSS:

```css
body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: #f9f9f9;

color: #333;

}

header {

background: #2c3e50;

color: white;

text-align: center;

padding: 20px;

}

nav {

background: #34495e;

padding: 10px;

text-align: center;

}

nav ul {

list-style: none;

padding: 0;

margin: 0;

}

nav ul li {

display: inline;

margin: 0 15px;

}

nav ul li a {

color: white;

text-decoration: none;

font-weight: bold;

}

section {

width: 80%;

margin: 20px auto;

padding: 20px;
```

```css
background: white;

box-shadow: 0px 0px 10px rgba(0, 0, 0,
0.1);

border-radius: 8px;

}

h2 {

border-bottom: 2px solid #2c3e50;

padding-bottom: 5px;

}

ul {

list-style-type: disc;

padding-left: 20px;

}

footer {

background: #2c3e50;

color: white;

text-align: center;

padding: 15px;

margin-top: 20px;

}
```

Conclusion:

By using **HTML** and **CSS**, we successfully designed a **portfolio website** with structured content, smooth navigation, and a responsive layout. The **HTML elements** provided the foundation,

while **CSS styling** improved the visual appearance and user experience. This experiment demonstrates how effective web design principles can enhance both functionality and aesthetics, making the website interactive and easy to navigate.

Hi, I'm Ankita Kukreja!

A **Computer Engineering** student at **Vivekanand Education Society, Mumbai**, exploring **web development, programming, and design**.

About Me

Hi, I'm Ankita Kukreja, a Computer Engineering student at Vivekanand Education Society, Mumbai. I'm passionate about **web development, programming, and UI/UX design**. With experience in **C, Java, Python, HTML, CSS**, and a strong foundation in **Data Structures**, I enjoy building projects that enhance my skills.

I also have an interest in UI/UX design, working with **Figma and Canva** to create visually appealing and user-friendly interfaces. Currently, I'm learning **full-stack web development** and love collaborating on projects to expand my knowledge.

I believe in continuous learning and teamwork, striving to create solutions that not only meet expectations but exceed them. If you'd like to collaborate or learn more about my work, feel free to reach out!

Skills

- **Programming:** C, Java, Python
- **Web Development:** HTML, CSS (Learning full-stack)
- **UI/UX Tools:** Canva, Figma
- **Data Structures & Algorithms**
- **Collaboration & Teamwork**

Contact

Email: 2023.ankita.kukreja@ves.ac.in

Phone: +91 xxxxx xxxxx