A Personal Profile Page

Let's design a simple project:

HTML Elements

Exercise:

Start your personal profile page. Create a new HTML file and add a heading with your name and a paragraph with a brief introduction about yourself.

```
<h1>John Doe</h1>
    <p>Hello! I'm Yash, a web development enthusiast.</p>
```

Headings in HTML

Exercise:

Add a subheading titled "About Me" below your introduction.

```
<h2>About Me</h2>
```

Paragraphs in HTML

Exercise:

Under the "About Me" subheading, write a more detailed paragraph about yourself.

Links in HTML

Exercise:

Add a link to your LinkedIn or any other social media profile.

```
1 <a href="https://www.linkedin.com/in/yashar-baradaranshokouhi-591a4b221/">My LinkedIn Profile</a>
```

Lists in HTML

Exercise:

Create a list of hobbies or skills.

```
<h2>My Skills</h2>
    <ul>
        <li>HTML</li>
        <li>CSS</li>
        <li>JavaScript</li>
    </ul>
```

Images in HTML

Exercise:

Add a profile picture to your page.

```
<img src="path/to/your/image.jpg" alt="John Doe's Profile Picture">
```

CSS

Exercise:

Style your name (the `<h1>` element) to have a different colour.

```
h1 {
    color: blue;
}
```

Internal CSS

Exercise:

Add an internal stylesheet to your profile page and give it a background colour.

```
<style>
    body {
        background-color: #f5f5f5;
    }
</style>
```

CSS Selectors

Exercise

Style the "About Me" subheading and the list of skills differently.

```
h2 {
    font-style: italic;
}
ul {
    list-style-type: square;
}
```

What is JavaScript?

Exercise

Add a button that, when clicked, displays an alert saying "Thanks for visiting my profile!"

```html
<button onclick="displayMessage()">Click Me</button>
```

```javascript
function displayMessage() {
    alert("Thanks for visiting my profile!");
}
```

Events in JavaScript

Exercise

Modify the button so that it counts and displays the number of times it's been clicked.

```html
<button onclick="countClicks()">I've been clicked 0 times</button>
```

```javascript
function displayMessage() {
    alert("Thanks for visiting my profile!");
}
```

Accessing Elements

Exercise

Use the DOM to dynamically update the list of skills. Add a button that, when clicked, adds a new skill to the list.

```html
<button onclick="addSkill('Python')">Add Python to Skills</button>
```

```
function addSkill(skill) {
    var ul = document.querySelector("ul");
    var li = document.createElement("li");
    li.textContent = skill;
    ul.appendChild(li);
}
```

DOM Events

Exercise

Instead of the inline `onclick`, use `addEventListener` to attach the click event to the button.

```
document.querySelector("button").addEventListener("click", countClicks);
```

By the end of the activity, you should have a basic personal profile page with your name, a brief introduction, a detailed paragraph, a link to a social media profile, a list of skills, a profile picture, and interactive buttons.

Well done.