

DAY 1 Html, CSS, Javascript

HTML (structure of the page)

Key Concepts:

- Document structure with <!DOCTYPE>, <html>, <head>, and <body> tags
- Semantic elements like headings (<h1> to <h6>)
- Text formatting with paragraph tags (<p>)
- Interactive elements like buttons
- Form creation with various input types

Code Example:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>My First Page</title>

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

  <script src="script.js"></script>

</head>

<body>

  <div>

    <h1>Main Heading</h1>

    <p id="content">This is a paragraph.</p>

    <button id="myButton" onclick="handleClick()">Click Me</button>

  </div>

</body>

</html>
```

CSS (Styling of the web page)

Key Concepts:

- Selectors (element, class, ID)
- Box model (margin, border, padding)
- Color and typography properties

Code Example:

```
body{  
    font-family: sans-serif;  
    background-color: #eaeaea;  
    margin: 0;  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    height: 100vh;  
}  
  
.container {  
    background-color: white;  
    padding: 20px;  
    border-radius: 6px;  
    width: 280px;  
    box-shadow: 0 0 5px rgba(0, 0, 0, 0.1);  
}  
  
#content {  
    font-style: italic;  
}
```

JavaScript (Behaviour of the web page)

Key Concepts:

- Variables and data types
- Control structures (conditionals, loops)
- Functions
- Array manipulation methods
- Local storage for data persistence
- DOM manipulation

Code Examples:

Variables and Basic Operations:

```
// Variable declarations
```

```
let username = "Abden";
```

```
let age = 25;
```

```
const isLoggedIn = true;
```

```
// Array operations
```

```
let names = ["Aaryan", "Abden", "Alex"];
```

```
names.forEach(name => console.log(name));
```

```
names.push("New Name");
```

Local Storage:

```
// Store user details
```

```
function storeUserDetails() {
```

```
    const userDetails = {
```

```
        fullName: document.getElementById('fullname').value,
```

```
        username: document.getElementById('username').value,
```

```
        email: document.getElementById('email').value
```

```
    };
```

```
localStorage.setItem('userDetails', JSON.stringify(userDetails));
}

// Retrieve user details
function displayUserDetails() {
  const userDetails = localStorage.getItem('userDetails');
  if (userDetails) {
    const data = JSON.parse(userDetails);
    document.getElementById('userDetails').innerHTML = `
      <p><strong>Name:</strong> ${data.fullName}</p>
      <p><strong>Username:</strong> ${data.username}</p>
    `;
  }
}
```

Git Version Control

Git provides tools for tracking changes and collaborating on code.

Key Git Commands:

git init

git add index.html

git add .

git commit -m "Add login functionality"

git remote add origin <https://github.com/abden/repo.git>

git push -u origin main

git pull origin main