**WEB DESIGN TECHNOLOGY (DFT40163)**

**TOPIC 3 : CSS**

**Lab Activity 4**

**Queston 1:**

**Instruction: Enhancing a Student Profile Page with CSS.**

**Objective:**

Students will learn how to style an HTML student profile page using CSS. They will apply different CSS properties to enhance the visual appearance of the page.

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**Step-by-Step Instructions**

**Step 1: Create the HTML Structure**

1. Open a code editor (e.g., Notepad, Notepad++).

2. Create a new file and save it as profile.html.

3. Type the following HTML code:

```html
<!DOCTYPE html>
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Student Profile</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="profile-container">
        <img src="profile.jpg" alt="Student Photo" class="profile-img">
        <h1 class="student-name">Student Name</h1>
        <p class="student-info">Information Technology Student</p>
        <p class="student-description">This is a short bio about the student.</p>
        <button class="contact-btn">Contact Me</button>
    </div>
</body>
</html>
```

**Step 2: Create the CSS File**

1. In the same directory, create a new file and name it style.css.

2. Open style.css and add the following code:

```css
/* Apply general styles */
body {
    font-family: Arial, sans-serif;
    background-color: #f4f4f4;
    text-align: center;
}

/* Style the profile container */
.profile-container {
    background-color: white;
    width: 350px;
    padding: 20px;
    margin: 50px auto;
    border-radius: 10px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
}

/* Style the profile image */
.profile-img {
    width: 120px;
    height: 120px;
    border-radius: 50%;
    border: 3px solid #007BFF;
}

/* Style the student name */
.student-name {
    color: #333;
    font-size: 24px;
    margin-top: 10px;
}
```

```css
/* Style the student info */
.student-info {
    color: #555;
    font-size: 18px;
}

/* Style the description */
.student-description {
    font-size: 16px;
    color: #666;
    margin: 10px 0;
}

/* Style the button */
.contact-btn {
    background-color: #007BFF;
    color: white;
    padding: 10px 15px;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    transition: 0.3s;
}

.contact-btn:hover {
    background-color: #0056b3;
}
```
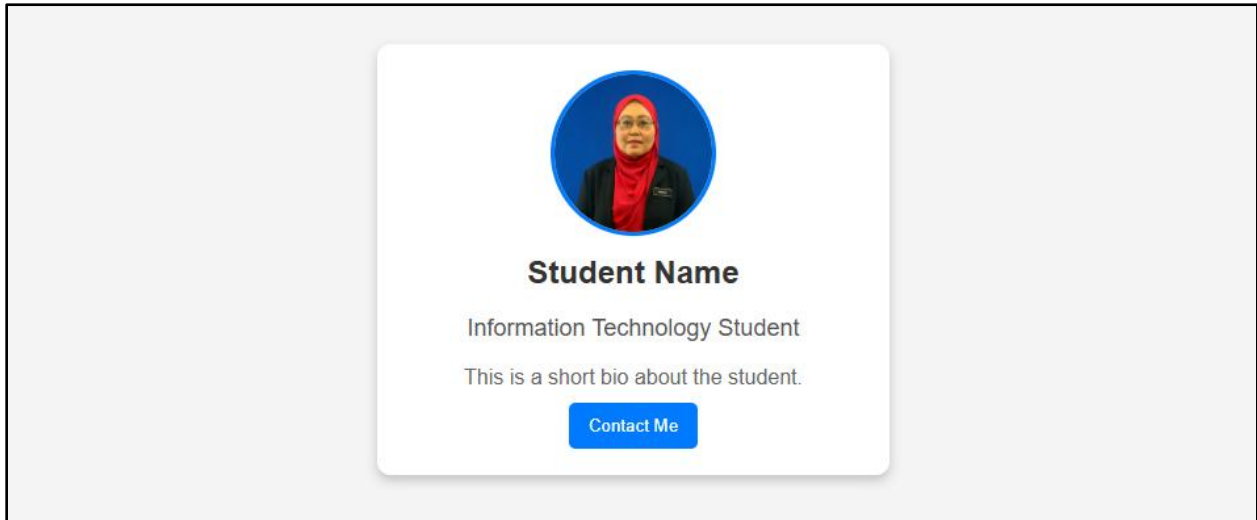
**Step 3: Test the Student Profile Page**

1.  Save both profile.html and style.css.

2.  Open profile.html in a web browser (Chrome, Firefox, or Edge).

3.  Verify that the CSS styles are applied correctly.

**Expected Output:**



**Step 4: Modify and Experiment (Bonus Challenge)**

*   Change the background color of .profile-container to #e0f7fa.

*   Increase the font size of .student-name to 28px.

*   Add text-shadow: 2px 2px 5px gray; to the .student-name class.

*   Change the hover effect of the .contact-btn to turn the text color black.

**Queston 2:**

**Instruction: Adding a Table to a Student Profile Page and Styling It with CSS.**

**Objective:**

Students will learn how to add a table to display student details in an HTML profile page and style it using CSS.

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**Step-by-Step Instructions**

**Step 1: Modify the HTML File (profile.html)**

1. Open your profile.html file in a code editor (Notepad or Notepad++).

2. Below the student profile section, add the following table inside the <body> tag:

```html
<!-- New Table for Student Details -->
<div class="table-container">
    <h2>Student Details</h2>
    <table class="student-table">
        <tr>
            <th>Attribute</th>
            <th>Details</th>
        </tr>
        <tr>
            <td>Name</td>
            <td>Student Name</td>
        </tr>
        <tr>
            <td>Age</td>
            <td>21</td>
        </tr>
        <tr>
            <td>Email</td>
            <td>Student Email</td>
        </tr>
        <tr>
            <td>Phone</td>
            <td>Student Phone Number</td>
        </tr>
    </table>
</div>

</body>
</html>
```

**Step 2: Update the CSS File (style.css)**

1. Open style.css in your code editor.

2. Add the following styles for the table:

```css
/* Style the table container */
.table-container {
    width: 50%;
    margin: 20px auto;
    text-align: center;
}

.table-container h2 {
    font-size: 22px;
    color: #007BFF;
    margin-bottom: 10px;
}

/* Style the table */
.student-table {
    width: 100%;
    border-collapse: collapse;
    background-color: white;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
}

.student-table th, .student-table td {
    border: 1px solid #ddd;
    padding: 10px;
    text-align: left;
}

.student-table th {
    background-color: #007BFF;
    color: white;
}

.student-table tr:nth-child(even) {
    background-color: #f2f2f2;
}

.student-table tr:hover {
    background-color: #d1ecf1;
}
```
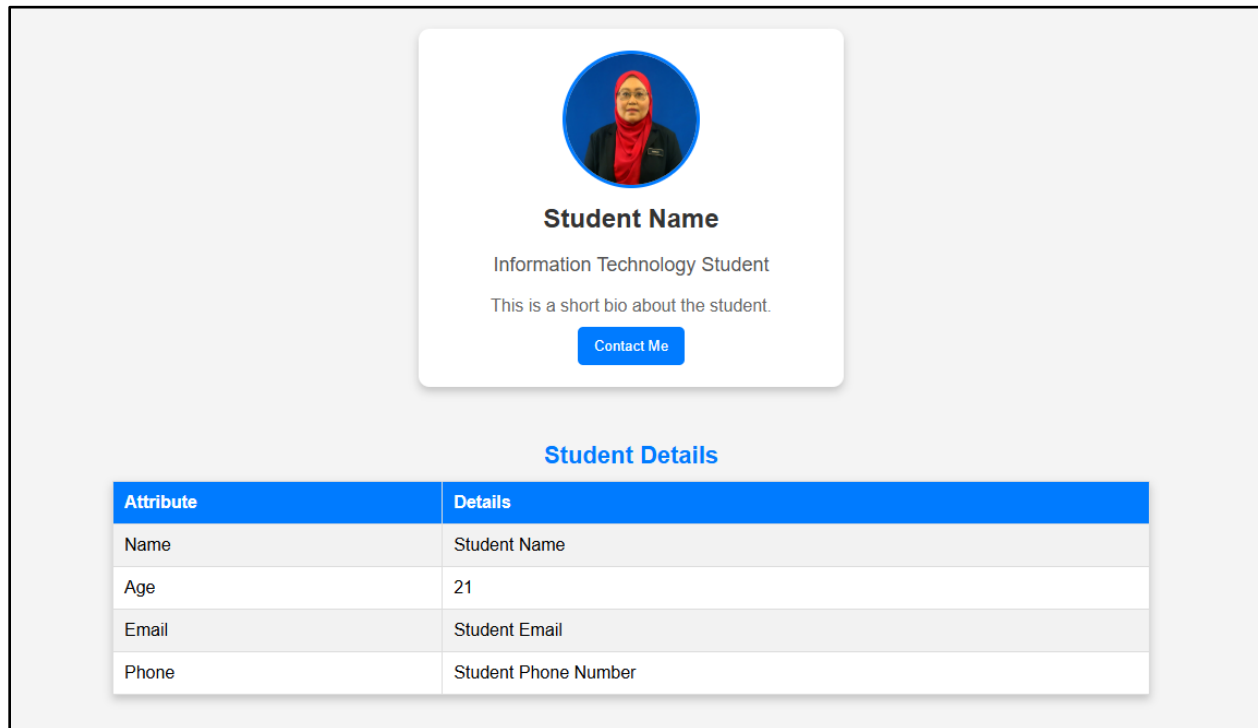
**Step 3: Test the Webpage**

1. Save both profile.html and style.css.

2. Open profile.html in a web browser (Chrome, Firefox, or Edge).

3. Ensure the table appears correctly and is styled properly.

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**Expected Output:**



**Step 4: Modify and Experiment (Bonus Challenge)**

- Change the table header background color to #FF5733.

- Increase the padding of table cells to 15px.

- Add border-radius: 10px; to the .student-table to make the corners rounded.

- Add `font-weight: bold;` to `th` and `td` to make the text more readable.