DIGITAL ASSIGNMENT 1

Slot: D1+TD1		Course Mode: Regular	**Class Number (s):** CH2023240501765
Course Code:	BCSE404L	Course Title:	Internet and Web Programming

Develop web pages using HTML, CSS and JavaScript

Scenario:

Imagine you are tasked with creating a personal portfolio website for a fictional graphic designer named Alex. Alex wants a modern and visually appealing website to showcase their portfolio, skills, and contact information. Your task is to design and implement the homepage of Alex's portfolio website using HTML and various elements of CSS.

Requirements:

1. Create a well-structured HTML document for the homepage, including the following elements: (index.html)

- Header: Should include Alex's name and a navigation menu with links to different sections of the portfolio (e.g., "Portfolio," "Skills," "Contact").
- Hero Section: A large and eye-catching section at the top of the page with a background image representing graphic design. Add a heading introducing Alex and a brief tagline.
- Portfolio Section: Display a grid of sample projects with images, project titles. Maintain a navigation to project page.
- Skills Section: Showcase Alex's skills using an appropriate layout (e.g., a list or a set of icons).
- Contact Section: maintain a navigation to Contact Page.

2. Projects Page (projects.html):
- List at least three projects that Alex has worked on, including project names, descriptions, and images.
- Implement a feature using JavaScript to allow users to click on a project to view more details or a live demo.
- Apply CSS styling to the project cards for a professional look.

3. Contact Page (contact.html)
- Include a contact form with fields for name, email, and a message.

- Add social media icons (e.g., GitHub, LinkedIn) linked to Alex's profiles.
- Apply CSS styling to the contact form and social media icons.
- Implement JavaScript to validate the contact form before submission.

4. Apply CSS styles to enhance the visual appeal of the website. Ensure that you:

- Use an external CSS file to style the HTML document.
- Apply appropriate font styles, colors, and spacing throughout the page.
- Implement a responsive design to ensure the website looks good on various screen sizes (consider using media queries).
- Add hover effects to navigation links and project thumbnails in the portfolio section.

5. Validate your HTML code using an online HTML validator and ensure that your CSS follows best practices.

Evaluation Criteria:

- Structure and Organization of HTML (2 marks)
- Proper use of HTML elements for each section (2 marks)
- Effectiveness and creativity in applying CSS styles (2 marks)
- Implementation of JavaScript for interactive features like project details and form validation (1 mark)
- Responsiveness and adaptability to different screen sizes (2 marks)
- Validity of HTML code and adherence to best practices (1 mark)

Submission Instructions:

- Submit a zip file containing three HTML files (index.html, projects.html, contact.html), a "css" folder with a stylesheet (style.css), and a "js" folder with a JavaScript file (script.js).

- Include any additional resources, such as project images, used in separate folders within the zip file.