Assignment 1: HTML, CSS, and JavaScript Basics

summation date - 15/1/2025 end of the day 20 Marks

*Task: Build a Simple To-Do List Application*

Objective:

Create a web-based to-do list application where users can:

* Add tasks.
* Mark tasks as completed.
* Remove tasks from the list.

Requirements:

**HTML:**

Create a form with an input field for entering tasks and a button to add them.

Add an unordered list (<ul>) to display the tasks.

**CSS:**

Style the input field, button, and task list for a clean and modern look.

Use different styles for completed tasks (e.g., strikethrough text or a background color).

Add hover effects for buttons.

**JavaScript:**

Write a script to:

Capture the input value and add it as a new task in the list.

Mark tasks as completed when clicked.

Allow users to remove tasks by clicking a delete button/icon next to the task.

Ensure that the list dynamically updates without refreshing the page.

**Bonus Challenges:**

Allow tasks to be edited by clicking on them.

Save the tasks in the browser's local storage so they persist after refreshing the page.

Add a "Clear All Tasks" button to remove all tasks at once.