Objective:

The objective of this assignment was to create a simple **Task Manager API** using **Node.js** and **Express.js**, with basic functionality to **add**, **view**, and **delete** tasks. The tasks were stored in an in-memory array, without using a database.

What I Learned:

- How to set up a backend server using **Express.js**.
- How to create RESTful API routes (GET, POST, DELETE).
- How to use **Postman** to test backend APIs.
- How to handle JSON data and route parameters in Express.
- Basic frontend interaction with an API using **HTML and JavaScript**.

Steps Followed:

1. **Project Setup:**
    a. Initialized a Node.js project using npm init.
    b. Installed express package.
2. **Created Backend (index.js):**
    a. Created an array tasks to store task objects.
    b. Implemented three routes:
        i. POST /addTask: To add a new task.
        ii. GET /tasks: To retrieve all tasks.
        iii. DELETE /task/:id: To delete a task by its ID.
3. **Tested API Using Postman:**
    a. Sent GET, POST, and DELETE requests to verify functionality.
    b. Handled error cases like missing taskName or invalid ID.
4. **Frontend Implementation:**
    a. Designed a basic HTML page to display tasks.
    b. Used JavaScript fetch() API to communicate with backend.
    c. Added buttons to add and delete tasks dynamically.

Outcome:

By the end of the assignment:

- I successfully built a functional REST API using Node.js and Express.
- I tested the API endpoints using Postman.
- I connected the backend with a simple frontend UI.
- This assignment improved my understanding of full-stack development basics and API testing.