Picture 1

**Assignment 06**

**Training Program:** MERN Stack Development

**Trainer:** Ahsan Javed

**Topic:** JavaScript Basics

**Due Date:** August 19, 2024

**Assignment: Daily Expense Tracker Command-Line Application**

**Objective:**  
Create a command-line application using JavaScript that allows users to track their daily expenses. This application will help users manage their finances by adding, viewing, updating, and deleting expense entries.

**Setup:**

* Use any text editor, such as Visual Studio Code.
* Save your project in a file named expenseTracker.js.

**Data Structure:**

* Store each expense entry as an object in an array.
* Each object should have properties like id, description, amount, and date.

**Features to Implement:**

1. **Add Expense**:
   * Prompt the user to enter the expense description, amount, and date.
   * Add this data as a new object to the array.
2. **View Expenses**:
   * Display all expenses with their IDs, descriptions, amounts, and dates.
3. **Update Expense**:
   * Allow the user to update the description and amount of an existing expense by entering its ID.
4. **Delete Expense**:
   * Allow the user to delete an expense by entering its ID.
5. **View Total Expenditure**:
   * Calculate and display the total amount spent, based on the expenses recorded.
6. **Exit**:
   * Provide an option for the user to exit the application.

**User Interaction:**

* Utilize prompt() for user inputs and console.log() for outputs.
* Create a user-friendly menu to navigate through options: Add, View, Update, Delete, Total Expenditure, and Exit.

**Error Handling and Validation:**

* Ensure the application can handle invalid inputs like non-existent IDs and incorrect data formats gracefully.

**Documentation and Comments:**

* Comment your code extensively to explain functions and logic.
* Include a brief user manual in the script comments detailing how to use the application.

**Submission Guidelines**

* Create a JS file and write code in it. Save it as **fname-lname-a-06.js**, where fname is your first name and lname is your last name.
* Send the file at [ahsanjaved@skilovate.com](mailto:ahsanjaved@skilovate.com) with subject **Assignment 06**.