**Name: Muhammad Huzaifa**

**Roll no: Su92-Bsaim-s24-010**

**Section: 3A**

**Subject: AI Lab**

**To-Do List Program Documentation**

**Overview:**

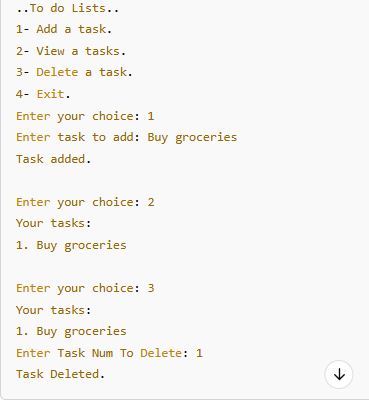
This Python program implements a simple **To-Do List** application using a while loop. It allows users to:

1. **Add a task** to the list.
2. **View all tasks** in the list.
3. **Delete a task** by specifying its number.
4. **Exit the program** when finished.

**Code Breakdown:**

1. **Function Definition**
   * The program is enclosed within the function to\_do\_list(), which manages the task list.
2. **Task Storage**
   * A list named tasks is initialized to store all user-added tasks.
3. **User Interaction (Menu System)**
   * A while True loop continuously displays the menu and takes user input until they choose to exit.
4. **Functionalities**
   * **Adding a Task:**
     + User enters a task, which is appended to the tasks list.
   * **Viewing Tasks:**
     + If tasks exist, they are displayed with their index number.
     + If no tasks are present, a message is shown.
   * **Deleting a Task:**
     + The task list is displayed with index numbers.
     + The user enters a task number to delete.
     + If the input is valid, the task is removed; otherwise, an error message appears.
   * **Exiting the Program:**
     + The user can exit by selecting option **4**.
5. **Input Handling**
   * The program ensures valid choices and prevents operations on an empty list.

**OUTPUT:**

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