# To-Do List Application

## Overview :

The To-Do List Application is a simple command-line program designed to help users manage their tasks effectively. Users can add new tasks, view the list of tasks, and mark tasks as complete. This project is implemented in Python and showcases fundamental concepts such as list operations, user input handling, and control flow.

## Features :

1. **Add Task**: Allows users to add a new task to the to-do list.
2. **View Tasks**: Displays all the tasks currently in the to-do list.
3. **Mark Task Complete**: Enables users to mark a task as completed and remove it from the list.
4. **Exit**: Exits the application.

## Code Description

### Global Variable :

* to\_do\_list: A list that stores all the tasks.

### Functions :

### ****add\_task() :****

* + Prompts the user to enter a new task.
  + Adds the entered task to the to\_do\_list.
  + Displays a confirmation message.

1. **view\_tasks() :**
   * Checks if there are any tasks in the to\_do\_list.
   * If the list is empty, informs the user that there are no tasks.
   * If there are tasks, displays each task with a number for easy identification.
2. **mark\_complete() :**
   * Checks if there are any tasks to mark complete.
   * If the list is empty, informs the user that there are no tasks to mark complete.
   * If there are tasks, calls view\_tasks() to display the list.
   * Prompts the user to enter the number of the task to mark as complete.
   * Validates the user input and removes the corresponding task from the list if the input is valid.
   * Displays a confirmation message or an error message based on the input.
3. **main() :**
   * Provides the main loop of the program.
   * Displays a menu with options: Add Task, View Tasks, Mark Task Complete, and Exit.
   * Handles user input to navigate through the menu and call the appropriate function.
   * Exits the loop and ends the program when the user chooses to exit.

### Execution :

* The program starts execution with the main() function.
* The line if \_\_name\_\_ == "\_\_main\_\_": main() ensures that the main() function runs only if the script is executed directly, not if it is imported as a module.