Python To-Do List Program - Explanation

# 1. Introduction

This program is a simple Command-Line Interface (CLI) To-Do List manager built in Python. It allows the user to add tasks, view tasks, remove tasks, and mark tasks as done. The tasks are stored in a text file so that they remain saved even after the program is closed.

# 2. Code Explanation

## a) File Handling

The program uses a file named 'tasks.txt' to save and load tasks.  
- load\_tasks(): Reads the tasks from the file if it exists.  
- save\_tasks(): Writes the list of tasks to the file.

## b) Adding Tasks

When the user selects 'add', they can type a new task. The task is then stored in the list and saved into 'tasks.txt'.

## c) Viewing Tasks

When 'view' is chosen, the program displays all current tasks. If there are no tasks, it informs the user that the list is empty.

## d) Removing Tasks

When 'remove' is chosen, the program shows all tasks with numbers. The user can select a task number to remove it from the list. After removal, the updated list is saved back to the file.

## e) Marking Tasks as Done

When 'done' is chosen, the program lets the user select a task number. The selected task is then marked with [DONE] to indicate completion.

## f) Exiting

When 'exit' is typed, the program ends and shows the final list of tasks before closing.

# 3. Program Flow

The program displays options for the user:  
- add → Add a new task  
- view → View all tasks  
- remove → Remove a task by number  
- done → Mark a task as completed  
- exit → Exit the program

# 4. Conclusion

This program demonstrates how to create a simple and effective To-Do List application using Python. It covers file handling, loops, user input, and basic list management. With some improvements, it can be turned into a more advanced task manager.

# 5. Output

