

# To-do List Application - 1

## Project: To-Do List Application

### Objective:

Create a simple to-do list application that allows users to add, remove, and view tasks. This project will help you practice working with lists and functions in Python.

### Description:

In this project, you'll develop a console-based to-do list application. The application will provide a menu for the user to perform the following actions:

1. Add a task to the to-do list.
2. Remove a task from the to-do list.
3. View all tasks in the to-do list.
4. Exit the application.

### Features:

1. **Add Task:** Allows the user to add a new task to the list.
2. **Remove Task:** Allows the user to remove a task from the list.
3. **View Tasks:** Displays all the tasks in the list.
4. **Exit:** Ends the program.

### Implementation Steps:

1. **Initialize an empty list** to store the tasks.
2. **Create functions** for adding, removing, and viewing tasks.
3. **Create a menu** that repeatedly prompts the user for an action until they choose to exit.
4. **Handle invalid inputs** gracefully.

## Sample Demo:

### 1. Starting the Application:

```
To-Do List Application
1. Add Task
2. Remove Task
3. View Tasks
4. Exit
Enter your choice: 1
```

### 2. Adding a Task:

```
Enter the task: Buy groceries
'Buy groceries' has been added to the list.

To-Do List Application
1. Add Task
2. Remove Task
3. View Tasks
4. Exit
Enter your choice: 1
Enter the task: Finish homework
'Finish homework' has been added to the list.
```

### 3. Viewing Tasks:

```
To-Do List Application
1. Add Task
2. Remove Task
3. View Tasks
4. Exit
Enter your choice: 3

To-Do List:
```

1. Buy groceries
2. Finish homework

#### 4. Removing a Task:

To-Do List Application

1. Add Task
2. Remove Task
3. View Tasks
4. Exit

Enter your choice: 2

Enter the task to remove: Buy groceries

'Buy groceries' has been removed from the list.

To-Do List Application

1. Add Task
2. Remove Task
3. View Tasks
4. Exit

Enter your choice: 3

To-Do List:

1. Finish homework

#### 5. Exiting the Application:

To-Do List Application

1. Add Task
2. Remove Task
3. View Tasks
4. Exit

Enter your choice: 4

Exiting the application. Goodbye!

#### Tips:

- Make sure to handle invalid inputs and edge cases, such as trying to remove a task that doesn't exist.
- You can expand this project by adding features like marking tasks as complete or saving the list to a file.