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# Python To-Do List Program Documentation

## 1. Introduction

This document provides an explanation and analysis of a simple Python program designed to manage a to-do list. The program allows users to add, remove, view, and quit tasks interactively using a command-line interface.

## 2. Features of the Program

- Add a task to the list

- Remove a task from the list

- View all tasks

- Exit the program

## 3. Code Explanation

Below is the main function used in the program:

def to\_do\_list():  
 tasks = []  
  
 while True:  
 print("1. Add task")  
 print("2. Remove task")  
 print("3. Show tasks")  
 print("4. Quit")  
 choice = input("Enter your choice")  
   
 if choice == "1":  
 task = input("Enter task: ")  
 tasks.append(task)  
 elif choice == "2":  
 task = input("Enter task to remove: ")  
 if task in tasks:  
 tasks.remove(task)  
 else:  
 print("Task not found")  
 elif choice == "3":  
 print("Tasks: ")  
 for task in tasks:  
 print("-" + task)  
 elif choice == "4":  
 break  
 else:  
 print("Invalid choice")  
   
to\_do\_list()

Step-by-step explanation:

1. The function `to\_do\_list()` is defined to manage task operations.

2. An empty list `tasks` is used to store all task entries.

3. A `while True` loop ensures the program runs until the user chooses to quit.

4. The user is shown a menu to choose an operation (add, remove, show, quit).

5. Based on the user input:

- If input is '1': a task is taken from the user and appended to the list.

- If input is '2': the user provides a task to remove. If it exists, it is removed.

- If input is '3': all tasks in the list are printed.

- If input is '4': the loop breaks and the program ends.

- Any other input is considered invalid.

## 4. Sample Output

1. Add task  
2. Remove task  
3. Show tasks  
4. Quit  
Enter your choice: 1  
Enter task: Complete assignment  
  
1. Add task  
2. Remove task  
3. Show tasks  
4. Quit  
Enter your choice: 3  
Tasks:  
- Complete assignment

