# To do list Program Explanation

This document explains a simple Task Manager program written in Python. The explanation covers how each function works and why it is necessary.

## 1. Task List

tasks = []  
  
How:  
- Creates an empty list to store tasks.  
  
Why:  
- Lists are flexible, so you can add, view, and remove tasks easily.

## 2. Write Task Function

def writetask():  
 print('write your task')  
 write = input('enter your task: ')  
 tasks.append(write)  
 print('task added')  
  
How:  
- Asks the user to enter a task.  
- Appends it to the 'tasks' list.  
- Confirms that it’s added.  
  
Why:  
- To let the user create and save new tasks.

## 3. View Tasks Function

def viewtask():  
 if tasks == []:  
 return 'you have no task'  
 elif tasks != []:  
 return f'your tasks: {tasks}'  
 else:  
 return 'error'  
  
How:  
- If the list is empty → returns 'you have no task'.  
- Otherwise → returns all tasks.  
  
Why:  
- Lets the user see what tasks exist.  
  
Note:  
- The 'elif tasks != []' part is redundant, as it can be replaced with 'else'.

## 4. Remove Task Function

def removetask():  
 print(viewtask())  
 print('which task you want to remove enter number(1,2,3....)')  
 if tasks:  
 user = int(input('Enter task number to remove: '))  
 if user > 0 and user <= len(tasks):  
 removed = tasks.pop(user - 1)  
 print(f'Removed: {removed}')  
 else:  
 print('Invalid task number!')  
  
How:  
- Shows the task list.  
- Asks which task to delete by number.  
- Uses .pop() to remove that task from the list.  
  
Why:  
- Lets the user delete completed or unwanted tasks.

## 5. Main Menu (Loop)

while True:  
 print('1.writetask', '\n2.viewtask', '\n3.remove', '\n4.exit')  
 choice = input('enter your choice: ')  
 if choice == '1':  
 writetask()  
 elif choice == '2':  
 print(viewtask())  
 elif choice == '3':  
 removetask()  
 elif choice == '4':  
 print('exiting.....')  
 break  
 else:  
 print('not valid')  
  
How:  
- Runs forever (while True) until the user selects exit.  
- Prints menu options and takes user choice.  
- Runs the corresponding function based on input.  
Why:  
- Provides a simple interactive menu for the user.

## 6. Example Run

1.writetask  
2.viewtask  
3.remove  
4.exit  
enter your choice: 1  
write your task  
enter your task: Buy milk  
task added  
  
enter your choice: 2  
your tasks: ['Buy milk']  
  
enter your choice: 3  
your tasks: ['Buy milk']  
which task you want to remove enter number(1,2,3....)  
Enter task number to remove: 1  
Removed: Buy milk  
  
enter your choice: 4  
exiting.....

