

```
def add_task(tasks, task):  
    tasks.append({"task": task, "completed": False})  
    print("Task added successfully")
```

```
def remove_task(tasks, task_index):  
    if 0 <= task_index < len(tasks):  
        del tasks[task_index]  
        print("Task removed successfully")  
    else:  
        print("Invalid task index")
```

```
def view_tasks(tasks):  
    if tasks:  
        print("Your To-Do List:")  
        for index, task in enumerate(tasks):  
            status = "Completed" if task["completed"] else "Pending"  
            print(f"{index + 1}. {task['task']} - {status}")  
    else:  
        print("Your To-Do List is empty!")
```

```
def mark_as_completed(tasks, task_index):  
    if 0 <= task_index < len(tasks):  
        tasks[task_index]["completed"] = True  
        print("Task marked as completed")  
    else:  
        print("Invalid task index")
```

```
def main():  
    tasks = []  
    while True:
```

```
print("Select an option")  
print("1. Add Task")  
print("2. Remove Task")  
print("3. View Tasks")  
print("4. Mark Task as Completed")  
print("5. Quit")
```

```
choice = input("Enter your choice (1/2/3/4/5): ")
```

```
if choice == '1':
```

```
    task = input("Enter the task: ")
```

```
    add_task(tasks, task)
```

```
elif choice == '2':
```

```
    view_tasks(tasks)
```

```
    task_index = int(input("Enter the index of the task to remove: ") - 1)
```

```
    remove_task(tasks, task_index)
```

```
elif choice == '3':
```

```
    view_tasks(tasks)
```

```
elif choice == '4':
```

```
    view_tasks(tasks)
```

```
    task_index = int(input("Enter the index of the task to mark as completed: ") - 1)
```

```
    mark_as_completed(tasks, task_index)
```

```
elif choice == '5':
```

```
    print("Goodbye!")
```

```
    break
```

```
else:
```

```
    print("Invalid choice! Please enter a number between 1 and 5.")
```

```
if __name__ == "__main__":
```

Python 3.12.2 (tags/v3.12.2:6abdd49, Feb 6 2024, 21:26:36) [MSC v.1937 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

= RESTART: C:/Users/owner/AppData/Local/Programs/Python/Python312/calculator.py py

Select an option:

1. Add Task
2. Remove Task
3. View Tasks
4. Mark Task as Completed
5. Quit

Enter your choice (1/2/3/4/5): 1

Enter the task: wake up at 6 o'clock

Task added successfully!

Select an option:

1. Add Task
2. Remove Task
3. View Tasks
4. Mark Task as Completed
5. Quit

Enter your choice (1/2/3/4/5): eat

Invalid choice! Please enter a number between 1 and 5.

Select an option:

1. Add Task
2. Remove Task
3. View Tasks
4. Mark Task as Completed