PROJECTS/TO DO LIST

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class ToDoList:
    def __init__(self):
        self.tasks = []

    def add_task(self, task):
        self.tasks.append({"task": task, "completed": False})
        print(f"Task '{task}' added.")

    def remove_task(self, task):
        for t in self.tasks:
            if t["task"] == task:
                self.tasks.remove(t)
                print(f"Task '{task}' removed.")
                return
        print(f"Task '{task}' not found.")

    def view_tasks(self):
        if not self.tasks:
            print("No tasks in the list.")
        else:
            for idx, t in enumerate(self.tasks, start=1):
                status = "Completed" if t["completed"] else "Not Completed"
                print(f"{idx}. {t['task']} - {status}")

    def mark_completed(self, task):
        for t in self.tasks:
            if t["task"] == task:
                t["completed"] = True
                print(f"Task '{task}' marked as completed.")
                return
        print(f"Task '{task}' not found.")

def display_menu():
    print("\nTo-Do List Menu:")
    print("1. Add Task")
    print("2. Remove Task")
    print("3. View Tasks")
    print("4. Mark Task as Completed")
    print("5. Exit")

def main():
    todo_list = ToDoList()

    while True:
        display_menu()
        choice = input("Enter your choice: ")

        if choice == "1":
            task = input("Enter the task to add: ")
            todo_list.add_task(task)
        elif choice == "2":
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            task = input("Enter the task to remove: ")
            todo_list.remove_task(task)
        elif choice == "3":
            todo_list.view_tasks()
        elif choice == "4":
            task = input("Enter the task to mark as completed: ")
            todo_list.mark_completed(task)
        elif choice == "5":
            print("Exiting the To-Do List application.")
            break
        else:
            print("Invalid choice. Please select a valid option.")

if __name__ == "__main__":
    main()

```