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import json
import os

DATA_FILE = "tasks.json"


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

    def load_tasks(self):
        if os.path.exists(DATA_FILE):
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            with open(DATA_FILE, "r") as file:
                self.tasks = json.load(file)
        else:
            self.tasks = []

    def save_tasks(self):
        with open(DATA_FILE, "w") as file:
            json.dump(self.tasks, file, indent=4)

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

    def complete_task(self, index):
        if 0 <= index < len(self.tasks):
            self.tasks[index]["completed"] = True
            self.save_tasks()
            print(f"Task marked as completed: {self.tasks[index]['title']}")
        else:
            print("Invalid task number.")

    def delete_task(self, index):
        if 0 <= index < len(self.tasks):
            removed = self.tasks.pop(index)
            self.save_tasks()
            print(f"Deleted task: {removed['title']}")
        else:
            print("Invalid task number.")

    def list_tasks(self):
        if not self.tasks:
            print("No tasks found.")
        else:
            print("\nTasks:")
            for i, task in enumerate(self.tasks):
                status = "✔" if task["completed"] else "✘"
                print(f"{i}. [{status}] {task['title']}")
            print()

    def show_progress(self):
        if not self.tasks:
            print("No tasks to track progress.")
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            return
        completed = sum(task["completed"] for task in self.tasks)
        total = len(self.tasks)
        percentage = (completed / total) * 100
        print(f"Progress: {completed}/{total} tasks completed ({percentage:.2f}%)\n")


def main():
    manager = TaskManager()

    while True:
        print("\n📋 Task Manager")
        print("1. Add Task")
        print("2. Complete Task")
        print("3. Delete Task")
        print("4. View Tasks")
        print("5. Show Progress")
        print("6. Exit")

        choice = input("Choose an option (1-6): ")

        if choice == "1":
            title = input("Enter task title: ")
            manager.add_task(title)

        elif choice == "2":
            manager.list_tasks()
            try:
                index = int(input("Enter task number to complete: "))
                manager.complete_task(index)
            except ValueError:
                print("Invalid input.")

        elif choice == "3":
            manager.list_tasks()
            try:
                index = int(input("Enter task number to delete: "))
                manager.delete_task(index)
            except ValueError:
                print("Invalid input.")

        elif choice == "4":
            manager.list_tasks()

        elif choice == "5":
            manager.show_progress()

        elif choice == "6":
            print("Exiting Task Manager. Goodbye!")
            break

        else:
            print("Invalid choice. Please enter a number from 1 to 6.")


if __name__ == "__main__":
    main()
```