**Problem: Task Management CLI Tool - (Due within 48 hours of receipt)**

**Objective:**

Build a simple command-line interface (CLI) tool for managing tasks. The tool should allow users to add, view, complete, and delete tasks. Tasks should be stored in a text file (e.g., tasks.txt) so that they persist between sessions.

**Requirements:**

1. **Add a Task**:
   * Users should be able to add a task with a description.
   * Example command: python task\_manager.py add "Buy groceries"
   * The task should be added to tasks.txt.
2. **View Tasks**:
   * Users should be able to view all pending tasks.
   * Example command: python task\_manager.py list
   * The tool should display a numbered list of tasks.
3. **Complete a Task**:
   * Users should be able to mark a task as completed.
   * Example command: python task\_manager.py complete 1
   * The tool should mark the task as completed and remove it from the pending list.
4. **Delete a Task**:
   * Users should be able to delete a task by its number.
   * Example command: python task\_manager.py delete 1
   * The task should be removed from tasks.txt.
5. **Persistence**:
   * Tasks should be stored in a text file, so they are saved between program runs.

**Minimum Deliverables:**

A github repository (your own) having access to [Aditya.khaund@keysight.com](mailto:Aditya.khaund@keysight.com), raja.babu1@keysight.com

* A Python script (e.g. task\_manager.py) that meets the functional requirements.
* A brief README file explaining how to use the tool and the commands available.
* A sample tasks.txt file (if using text storage) to demonstrate the task list format.

**Notes:**

* Time estimation: We recommend spending 3 to 4 hours on this project. The goal is to see your approach to the problem within a manageable time frame, not to produce a complete production-ready solution.
* Technology stack: You are free to use any language, framework, architecture etc. You may also use LLM Chatbots, but make sure you can explain your design.
* Expectations: We understand that you may not have extensive software programming experience. We are more interested in evaluating your critical thinking, logic, programming mindset, and communication skills. We do not expect a robust cloud solution or the use of specific technologies.