Assessment #1

<div style="border: 1px solid; display: inline-block; padding: 10px;">Start Assignment</div>

Due   Friday by 5p.m.   **Points**   15   **Submitting**   a file upload

Available   Feb 29 at 5:15p.m. - Mar 1 at 5p.m. 23 hours and 45 minutes

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Task Management System

Features:

1. **Task Class:** Create a class representing a task with attributes like task name, description, due date, priority.
2. **CRUD Operations:** Implement functions/methods to:
   - Create a new task
   - Read/display tasks
   - Update task details
   - Delete tasks
3. **User Interface:** Implement a simple command-line interface to interact with the task management system.
4. **Modular Structure:** Organize your code into separate modules for better maintainability and readability.

Implementation Steps:

1. **Task Class:** Define a Python class representing a task. Include attributes and methods for basic task operations.
2. **CRUD Operations:** Implement functions/methods to perform CRUD operations on tasks.
3. **User Interface:** Create a command-line interface to interact with the task management system. Use input/output to get user input and display task information.
4. **Modular Structure:** Organize your code into separate modules:
   - `task.py`: Define the Task class
   - `task_manager.py`: Implement CRUD operations
   - `main.py`: Implement the command-line interface and integrate with task manager functionalities.
5. **Testing:** Test your application by creating, updating, deleting tasks, and ensuring that all functionalities work as expected.
6. **Documentation:** Add comments/documentation to your code to explain its functionality and usage.

Sample Working

```
Welcome to Task Manager!

1. Add Task
2. View Tasks
3. Update Task
4. Delete Task
5. Exit

Enter your choice: 1
Enter task name: Complete Python project
Enter task description: Implement a simple task management system in Python
Enter due date: 2024-02-28
Enter priority (High/Medium/Low): High
Task added successfully!

Enter your choice: 2
--- Tasks ---
1. Task Name: Complete Python project
   Description: Implement a simple task management system in Python
   Due Date: 2024-02-28
   Priority: High

Enter your choice: 3
Enter the task ID to update: 1
Enter new due date: 2024-03-05
Task updated successfully!

Enter your choice: 4
Enter the task ID to delete: 1
Task deleted successfully!

Enter your choice: 5
Exiting Task Manager. Goodbye!
```