



INTERNATIONAL UNIVERSITY
FOR SCIENCE & TECHNOLOGY
الجامعة الدولية الخاصة للعلوم والتكنولوجيا

Task Manager in python

The project aims to help users organize and manage their daily tasks in a simple and efficient way, with support for urgent tasks, completed tasks, and sorting tasks by priority or date. Object-oriented programming (OOP) and various data structures were used to achieve flexible and easily scalable performance .

Objectives

- 1.Enable the user to add, view, and delete tasks**
- 2.Sort tasks by priority or due date**
- 3.Manage completed tasks separately**
- 4.Handle urgent tasks using a queue**
- 5.Provide a simple text-based interactive interface to access all functionalities**

Data Structures Used :

- List: To store the main tasks**
- Linked List: To store completed tasks**
- Queue (using deque): To store urgent tasks**

(Object-Oriented Programming) OOP:

- Task class: Represents each task**
- LinkedList and Node classes: Represent completed tasks**
- TaskManager class: Manages all operations (add, delete, (sort, display)**

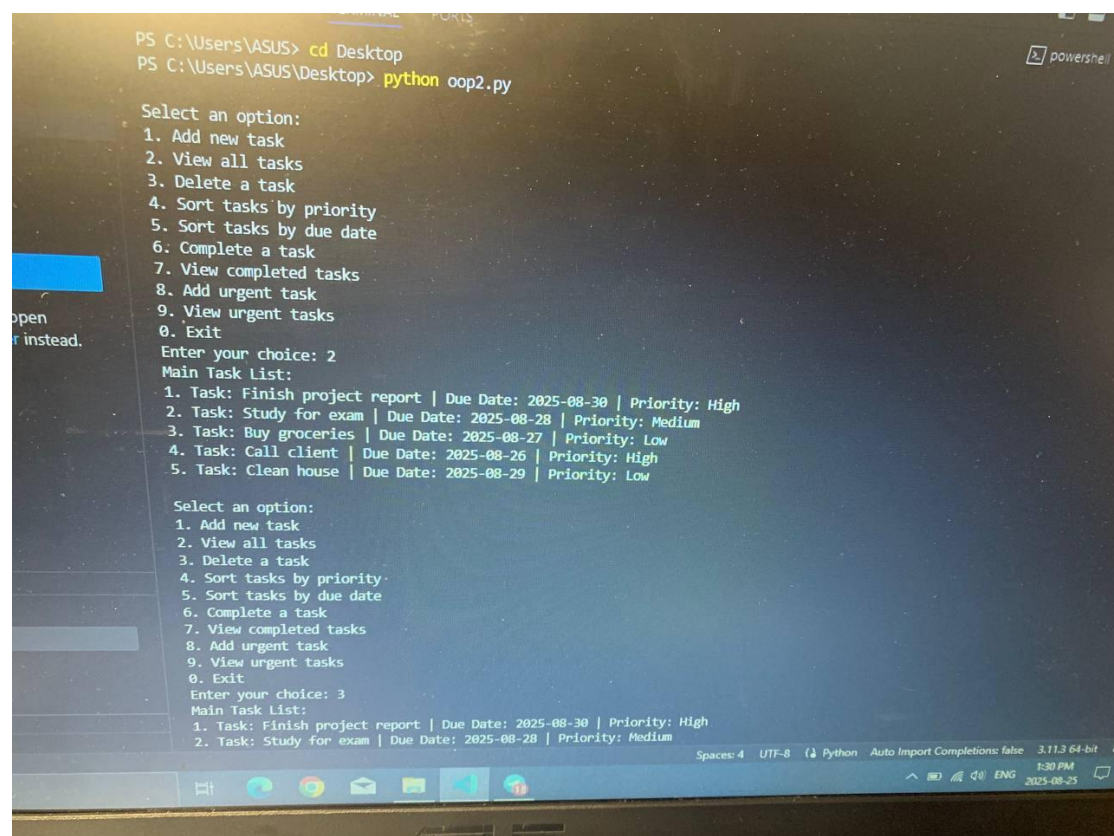
Project Functions

- + Add a new task.
- + Display all tasks.
- + Delete a task.
- + Sort tasks by priority.
- + Sort tasks by date.
- + Complete a task and move it to the completed tasks list.
- + Display completed tasks.
- + Add an urgent task.
- + Display urgent tasks.

Conclusion :

The project provides a simple and flexible tool for managing daily tasks using Python and OOP, with future scalability to add features such as a graphical user interface, task saving to .files, or time-based reminders

result



```
PS C:\Users\ASUS> cd Desktop
PS C:\Users\ASUS\Desktop> python oop2.py

Select an option:
1. Add new task
2. View all tasks
3. Delete a task
4. Sort tasks by priority
5. Sort tasks by due date
6. Complete a task
7. View completed tasks
8. Add urgent task
9. View urgent tasks
0. Exit
Enter your choice: 2
Main Task List:
1. Task: Finish project report | Due Date: 2025-08-30 | Priority: High
2. Task: Study for exam | Due Date: 2025-08-28 | Priority: Medium
3. Task: Buy groceries | Due Date: 2025-08-27 | Priority: Low
4. Task: Call client | Due Date: 2025-08-26 | Priority: High
5. Task: Clean house | Due Date: 2025-08-29 | Priority: Low

Select an option:
1. Add new task
2. View all tasks
3. Delete a task
4. Sort tasks by priority
5. Sort tasks by due date
6. Complete a task
7. View completed tasks
8. Add urgent task
9. View urgent tasks
0. Exit
Enter your choice: 3
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```

```
... PROBLEMS OUTPUT TERMINAL PORTS
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Spaces: 4 UTF-8 Python Auto Import Completions: false
search
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