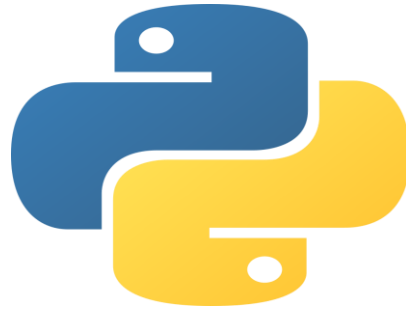


Personal To-Do List Application



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Project Overview

- Local CLI app with JSON persistence
- Add/View/Edit/Complete/Delete tasks
- Categories: Work, Personal, Urgent, Other



Objectives

- Practice Python basics, file handling
- Design clean CLI UX
- Ensure data persistence without DB



Features

- Add tasks with title & description
- Mark tasks completed
- Delete tasks
- Categorize tasks



Data Persistence

- Stored in tasks.json
- Saved after every change
- Robust loading with defaults



Project Structure

- `todo.py` – main logic
- `tasks.json` – data file
- `README.md` – instructions

Task Class

- Fields: title, description, category, completed
- Method: mark_completed()



Core Functions

- `save_tasks(tasks)`
- `load_tasks()`
- `list/add/edit/delete/complete` helpers

CLI Menu Flow

- Main menu
(Add/View/Edit/Complete/Delete/Exit)
- View submenu
(All/Category/Pending/Completed)



Validation & UX

- Title required
- Free-text or predefined categories
- Autosave & confirmations

How to Run

- ``python todo.py``
- Data saved to ``tasks.json``

Demo Walkthrough

- Add -> View -> Edit -> Complete -> Delete
- Filters by category/status

Edge Cases

- Empty list handling
- Invalid inputs
- Graceful KeyboardInterrupt



Extensibility

- Due dates & priorities
- Search & sorting
- Export/Import CSV



Testing Tips

- Try adding multiple categories
- Mark and filter completed tasks
- Verify JSON written



Conclusion

- Meets assignment requirements
- Simple to deploy & use