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Course : Data Structure and Object-Oriented Programming

Project: Student Time Management Assistant

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Project Description

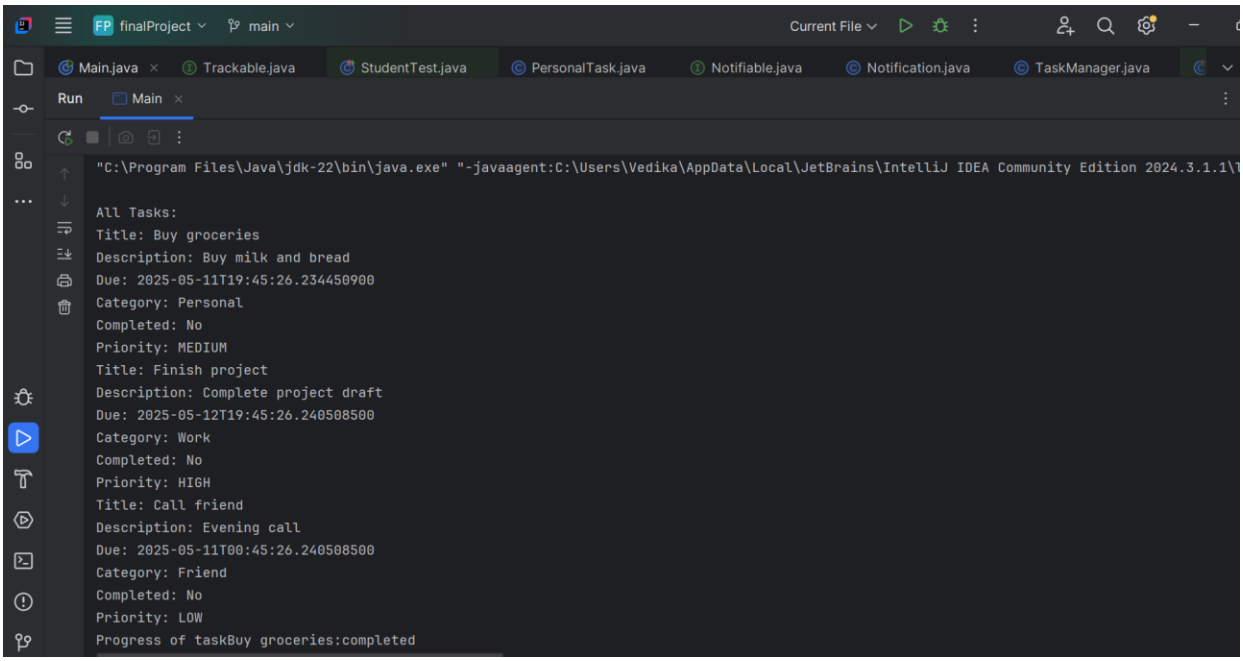
- In a busy academic life, students often struggle to balance assignments, exams, personal goals, and leisure. The Student Time Management Assistant helps students plan, track, and prioritize their daily academic tasks effectively.

This desktop-based Java application allows users to create, manage, and organize tasks, set reminders, and track progress

Program Features and Screenshots

Expected Output :

- Students can use the application to organize their weekly schedule,
- mark tasks as completed
- view their progress
- receive reminders for upcoming deadlines.
- Receive motivational rewards
- Students can also export their schedules.




```
Filtered by 'Work' Category:
Title: Finish project draft
Description: Add graphs
Due: 2025-05-13T19:45:26.249238100
Category: Work
Completed: No
Priority: HIGH

View Tasks by Category:
Category: Personal
Title: Buy groceries
Description: Buy milk and bread
Due Date: 2025-05-11T19:45:26.234450900
Completed: true
Category: Work
Title: Finish project draft
Description: Add graphs
Due Date: 2025-05-13T19:45:26.249238100
Completed: false
Category: Friend
Title: Call friend
```

```
Title: Call friend
Description: Evening call
Due Date: 2025-05-11T00:45:26.240508500
Category: Friend
Completed: false
Task not found: Call mom

After Prioritizing 'Call mom' by Title:
Title: Buy groceries
Description: Buy milk and bread
Due: 2025-05-11T19:45:26.234450900
Category: Personal
Completed: Yes
Priority: MEDIUM
Title: Finish project draft
Description: Add graphs
Due: 2025-05-13T19:45:26.249238100
Category: Work
Completed: No
Priority: HIGH
Title: Call friend
Description: Evening call
Due: 2025-05-11T00:45:26.240508500
```

```
Due: 2025-05-11T00:45:26.240508500
Category: Friend
Completed: No
Priority: LOW

After Prioritizing by Priority:
Title: Call friend
Description: Evening call
Due: 2025-05-11T00:45:26.240508500
Category: Friend
Completed: No
Priority: LOW
Title: Buy groceries
Description: Buy milk and bread
Due: 2025-05-11T19:45:26.234450900
Category: Personal
Completed: Yes
Priority: MEDIUM
Title: Finish project draft
Description: Add graphs
Due: 2025-05-13T19:45:26.249238100
Category: Work
```

```
Completed: Yes
Priority: MEDIUM
Title: Finish project draft
Description: Add graphs
Due: 2025-05-13T19:45:26.249238100
Category: Work
Completed: No
Priority: HIGH
Points after second task: 0
Points before reward check: 80
Not enough points to grant reward

Reward earned: false
Remaining points: 80

Sending Notifications:
Reminder: Task "Call friend" is not completed yet.
✓ Task "Buy groceries" is completed.
Reminder: Task "Finish project draft" is not completed yet.

Process finished with exit code 0
```

Challenges (any unimplemented features or issues faced during development).

My initial plan changed slightly, and some methods behaved differently than expected. I created a new UML diagram on my laptop to replace the hand-drawn one. During development, I wasn't consistent with commits early on, which led to spending nearly all of Saturday after the deadline fixing and finishing the project. At times, I had so many issues that I deleted and rewrote parts of the code, knowing I could revert changes with Git. I also didn't fully apply the TDD (Test-Driven Development) approach, which was a mistake. Also, I was sick and had multiple exams, so I didn't commit anything for a while — something I regret. Looking back, I realize I could've still made some progress, even if minimal.

Learning Outcomes (what you gained from the project).

I learned how to use GitHub in a much more effective way and how the concepts we learned in class can be applied to something more related to the real world. I also realized the importance of making consistent contributions every day, rather than doing everything at once.

This experience showed me that I need to become more efficient before next semester, when we'll be working on larger team projects. Therefore, I plan to focus on practicing and improving my skills over the summer.

I also learned to handle common issues — such as static vs. non-static references and constructors within fields — much more quickly than before.