

### **Idea**

- Smart Study Scheduler - Personalize Academic Planning

#### App Description:

- Python program that generates weekly study schedules based on the deadline, task length, time availability, and energy levels (of the user), i.e: users have to decide their own priorities. The app will automate the planning process and help users manage their workload more effectively.
- Fill in the blanks in case have unexpected free time
- Check deadline along with priority

#### Code Planning:

- Data Input/Output (import tasks and export pdf/text schedule)
- Time block allocation (with functions, loops, recursion, OOP)
- Conflict resolution (handling overlapping tasks and unavailable time slots)
- Error handling and debugging (for input validation)
- Visualization of schedule (with matplotlib)
- Saving JSON (file format for easy reading of data)
- GUI (tkinter)

#### Innovation

- Dynamic schedule generation based on time constraints
- Will attempt to use math to predict user availability (formula creation from energy level, task length, and time available) (can't guarantee its real-life accuracy but will attempt to adjust tasks based on perceived energy)
- Professor's Notes:
  - + Last thing to do (should keep in mind): an actual interface