OBJECT ORIENTED PROGRAMMING project made by – ARYAN SHARMA

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APPLICATION-**Medicine Reminder Application**

Many people, especially the elderly or those with chronic conditions, struggle to remember when to take their medications. Missing doses can lead to severe health complications. A **Medicine Reminder Application** can help address this issue by notifying users of their medication schedule, tracking adherence, and providing a simple, user-friendly interface.

**Features:**

1. **Add Medication**: Users can input medication details (name, dosage, time, and frequency).
2. **View Schedule**: Displays a list of medications and their corresponding times.
3. **Notifications**: Sends alerts for upcoming doses.
4. **Missed Doses Tracker**: Keeps a log of missed doses for future reference.
5. **User Profiles**: Supports multiple users (e.g., family members managing their parents' medications).
6. **Report Generation**: Generates a weekly report summarizing adherence

**OOP Concepts Used:**

1. **Encapsulation**: Keep medication details private with getter and setter methods.
2. **Inheritance**: A base class User for profiles, extended into Admin and Patient classes.
3. **Interfaces**: A Reminder interface for scheduling notifications.
4. **Polymorphism**: Overriding methods for different types of reminders (e.g., daily, weekly).
5. **Exception Handling**: Handle invalid inputs, like scheduling two medications at the same time.
6. **GUI**: Java Swing/JavaFX for a user-friendly interface.