Exercise

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- 1. What are the 7 basic principles of object orientation? Provide a brief description of each principle.
 - 1. Divide-and-Conquer: Break problems into small objects that interact.
 - 2. Encapsulation & Modularity: Keep objects self-contained and reusable.
 - 3. Public Interface: Define how objects interact.
 - 4. Information Hiding: Hide unnecessary details of implementation.
 - 5. Generality: Design objects to be reusable for multiple tasks.
 - 6. Extensibility: Make it easy to extend functionality.
 - 7. Abstraction: Focus on essential details and ignore unnecessary complexities.
- 2. State the benefits of OOP.
 - Reusability: Save time and avoid redundancy.
 - Maintainability: Easier debugging and modifications