

1. Define the **Open/Closed Principle** with an example.
2. What is the **Liskov Substitution Principle** in object-oriented design?
3. A `Printer` class does both printing and scanning. Which SOLID principle is violated? Explain briefly.
4. Class `Bird` has `fly()` method. A subclass `Penguin` overrides it but cannot fly. Which SOLID principle is violated?