**Single Responsibility Principle (SRP):** A class should have only one reason to change. In other words, a class should have only one responsibility or job.

This principle aims to keep classes focused and cohesive, making them easier to understand, maintain, and modify.

**One Reason to Change**: Each class should encapsulate a single responsibility, and there should only be one reason for it to change. If a class has multiple responsibilities and one of them changes, it can affect the other responsibilities and introduce unintended side effects.

**Cohesion**: Classes should be highly cohesive, meaning that the methods and attributes within a class should be closely related and work together to achieve a single, well-defined purpose.

**Encapsulation**: By adhering to SRP, you enhance encapsulation. Each class becomes a self-contained unit with a specific purpose, making it easier to understand and maintain.



