Notes part 11

A Tour of C++. Ch. 3. Modularity

- declare module with export module
- import instead of include import module foo;
- module in .cppm module definition files eliminates need of separation in .h header files and .cpp source code files
- may be called .cxx, .mpp etc. depending on compiler
- error handling
- contracts
- assertions
- structured binding

Exploring C++20. Ch. 42. Modules

- hiding implementation
- · compiling modules

Clean C++20. Ch. 6. Modularization

- information hiding
- strong cohesion
- loose coupling
- SRP Single Responsibility Principle similar to Separation of Concerns in database design
- SLA Single Level of Abstraction
- OCP Open-Closed Principle
- type erasure
- duck-typing
- LSP Liskov Substitution Principle
- final specifier
- RTTI run-time type information/identification
- ISP Interface Segregation Principle
- DIP Dependency Inversion Principle
- Law of Demeter don't talk to strangers
- aspect-oriented software development
- separate interface from hidden implementatiton
- · avoid anemic classes
- avoid static class members
- BMI Built Module Interface file

Modern C++. Ch. 12. Modules and Advanced C++. Ch. 12. Modules

Nice for reference

Exploring C++20. Ch. 43. Old-Fashioned "Modules"

· Nice for reference