

# 32 Lecture - CS504

## Important Mcqs

**Question: What is the primary goal of achieving clarity through modularity in software development?** a) To write code without any comments for simplicity. b) To break down complex tasks into smaller, self-contained modules. c) To avoid using version control systems for code management. d) To increase the number of lines of code in the project. **Solution: b**

**Question: What is a key advantage of using modular code?** a) It reduces the need for code documentation and comments. b) It makes the codebase harder to understand and maintain. c) It encourages code duplication and redundancy. d) It promotes code reuse and easier maintenance. **Solution: d**

**Question: What does modularity refer to in software development?** a) A way to write code using only functional programming paradigms. b) The process of breaking code into smaller, more manageable pieces. c) A technique to make code intentionally complex for security reasons. d) A coding style guideline for using specific naming conventions. **Solution: b**

**Question: How can modularity contribute to code clarity and readability?** a) By making the code longer and more complex. b) By avoiding the use of comments and documentation. c) By providing clear boundaries between different functions and components. d) By eliminating the need for version control systems. **Solution: c**

**Question: What is the benefit of self-contained modules in a codebase?** a) They increase code coupling, making it harder to modify. b) They allow developers to ignore code organization practices. c) They make it easier to understand the code's behavior and dependencies. d) They are not reusable and need to be rewritten for each use. **Solution: c**

**Question: What is the term used for a software development approach that encourages dividing complex tasks into smaller modules?** a) Code redundancy b) Object-oriented programming c) Modularity d) Code obfuscation **Solution: c**

**Question: How can modularity help with code maintenance?** a) By increasing code complexity and making it harder to update. b) By making the code entirely independent of any external dependencies. c) By enabling changes to a specific module without affecting others. d) By eliminating the need for version control systems. **Solution: c**

**Question: Which programming paradigm often supports modularity through the use of objects and classes?** a) Functional programming b) Imperative programming c) Procedural programming d) Object-oriented programming **Solution: d**

**Question: How does code reuse benefit from a modular approach?** a) It makes it impossible to reuse code effectively. b) It allows the same module to be used in multiple parts of the application. c) It reduces the need for modularization in the first place. d) It increases code duplication and redundancy. **Solution: b**

**Question: What can be a potential drawback of excessive modularity in a codebase?** a) Increased code readability and maintainability. b) Increased coupling between modules. c) Simplification of the development process. d) Difficulty in understanding the code's overall flow and logic. **Solution: d**