

40 Lecture - CS201

Important Subjective

- 1. What is the meaning of "Composition" in OOP?**
Ans: Composition is the process of including one class inside another class as a member variable.
- 2. What are the advantages of using objects as class members?**
Ans: The advantages of using objects as class members are reusability, encapsulation, and modularity.
- 3. What is the difference between composition and inheritance?**
Ans: Composition is a "has-a" relationship, while inheritance is an "is-a" relationship. In composition, one class is a member of another class, while in inheritance, one class inherits the properties and behaviors of another class.
- 4. How do you access the members of an object inside another object?**
Ans: You can access the members of an object inside another object by using the dot operator.
- 5. What is the role of constructors in objects as class members?**
Ans: Constructors are used to initialize the objects as class members.
- 6. Can we have an object of the same class as a member variable?**
Ans: Yes, we can have an object of the same class as a member variable. This is called "recursion."
- 7. What is the purpose of using objects as class members?**
Ans: The purpose of using objects as class members is to create more complex classes with better functionality and modularity.
- 8. What is the meaning of aggregation in OOP?**
Ans: Aggregation is the process of including one class inside another class as a member variable, but the included class can exist independently of the containing class.
- 9. How do you create an object as a member variable of another object?**
Ans: To create an object as a member variable of another object, you must declare a member variable of the desired class inside the containing class.
- 10. What are the disadvantages of using objects as class members?**
Ans: The main disadvantage of using objects as class members is that it can increase the complexity of the program and make it harder to understand and maintain. It can also lead to excessive memory usage if not managed properly.