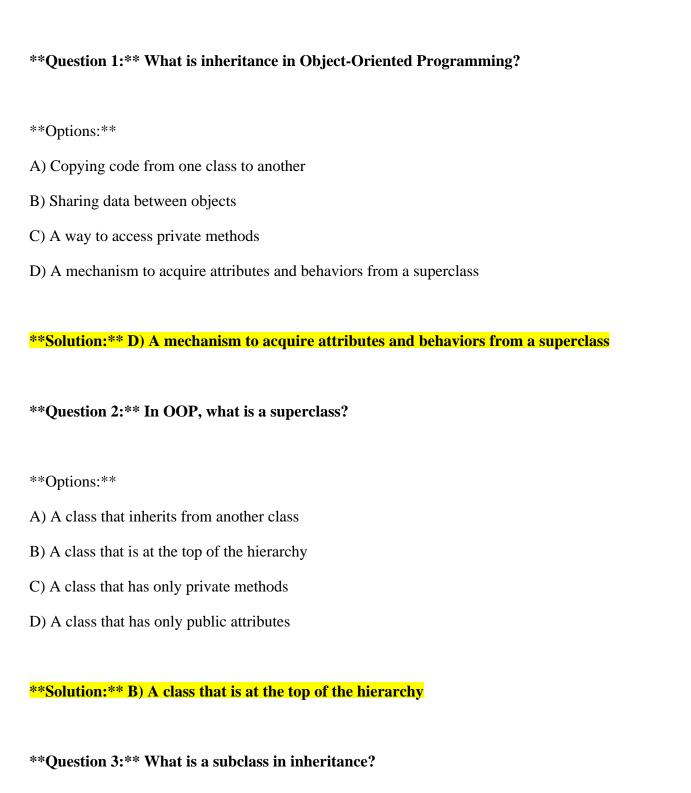
5 Lecture - CS506

Important Mcqs

Certainly, here are 10 multiple-choice questions (MCQs) related to the concept of Inheritance in Object-Oriented Programming, along with their solutions and options:



Options:
A) A class that has no attributes
B) A class that extends another class
C) A class that is private
D) A class that cannot have methods
Solution: B) A class that extends another class
Question 4: Which keyword is used to indicate inheritance in Java?
Options:
A) extends
B) inherits
C) derives
D) includes
Solution: A) extends
Question 5: What does method overriding involve?
Options:
A) Creating new methods in a subclass
B) Changing the name of a method in a subclass
C) Providing a specific implementation for a method in a subclass
D) Copying methods from a superclass to a subclass
Solution: C) Providing a specific implementation for a method in a subclass
Question 6: What is the purpose of the "super" keyword in Java?

Options:
A) It creates a new instance of a class.
B) It refers to the superclass of a class.
C) It is used to call private methods.
D) It is a reserved keyword and has no specific purpose.
Solution: B) It refers to the superclass of a class.
Question 7: In a subclass, can you access private members of the superclass?
Options:
A) Yes, directly
B) Yes, using the "super" keyword
C) No, private members are not accessible in subclasses
D) Only if the subclass has the same name as the superclass
Solution: C) No, private members are not accessible in subclasses
Question 8: What does a subclass inherit from its superclass?
Options:
A) Only attributes
B) Only methods
C) Both attributes and methods
D) Constructors only
Solution: C) Both attributes and methods

Question 9: How does inheritance contribute to code reusability?
Options:
A) It allows copying code from one class to another.
B) It enables sharing private methods between classes.
C) It promotes the reuse of attributes only.
D) It facilitates the reuse of attributes and methods from a superclass.
Solution: D) It facilitates the reuse of attributes and methods from a superclass.
Question 10: What's the term for a class that inherits from another class directly above it?
Options:
A) Ancestor class
B) Sibling class
C) Descendant class
D) Derived class
Solution: D) Derived class