

4 Lecture - CS304

Important Mcqs

1. **In object-oriented programming, what is inheritance?**

- a) A way to create new objects based on existing ones
- b) A way to create new classes based on existing ones
- c) A way to create new methods based on existing ones
- d) A way to create new properties based on existing ones

Answer: b) A way to create new classes based on existing ones

What is a superclass in inheritance?

- a) A class that inherits from another class
- b) A class that is inherited by another class
- c) A class that has no parent class
- d) A class that is created from scratch

Answer: b) A class that is inherited by another class

What is a subclass in inheritance?

- a) A class that inherits from another class
- b) A class that is inherited by another class
- c) A class that has no parent class
- d) A class that is created from scratch

Answer: a) A class that inherits from another class

What is the purpose of inheritance in object-oriented programming?

- a) To create new objects
- b) To reduce code redundancy
- c) To create new methods
- d) To create new properties

Answer: b) To reduce code redundancy

Which of the following keywords is used to denote inheritance in Java?

- a) extends
- b) implements
- c) interface
- d) abstract

Answer: a) extends

Which type of inheritance allows a subclass to inherit from multiple parent classes?

- a) Single inheritance
- b) Multiple inheritance
- c) Multilevel inheritance
- d) Hierarchical inheritance

Answer: b) Multiple inheritance

Inheritance promotes which principle of object-oriented programming?

- a) Encapsulation

- b) Polymorphism
- c) Abstraction
- d) All of the above

Answer: d) All of the above

Which access modifier in Java allows a subclass to access a protected member of its parent class?

- a) public
- b) private
- c) protected
- d) default

Answer: c) protected

What is method overriding in inheritance?

- a) Creating a new method in the subclass with the same name as a method in the parent class
- b) Creating a new method in the parent class with the same name as a method in the subclass
- c) Renaming a method in the subclass to match a method in the parent class
- d) Hiding a method in the parent class from the subclass

Answer: a) Creating a new method in the subclass with the same name as a method in the parent class

What is method overloading in inheritance?

- a) Creating a new method in the subclass with the same name as a method in the parent class
- b) Creating a new method in the parent class with the same name as a method in the subclass
- c) Renaming a method in the subclass to match a method in the parent class
- d) Creating a new method in the subclass with the same name but different parameters as a method in the parent class

Answer: d) Creating a new method in the subclass with the same name but different parameters as a method in the parent class