Latest 40 Java Interview Questions And Answers Pdf

Q. What is the difference between Interface and Abstract class?
Answer: Interface supports multiple inheritance but abstract class does not support multiple inheritance.

Q. What is Interface?
Answer: Interface is a blueprint of a class that contains abstract methods and static final variables.

Q. What is Abstract class?
Answer: Abstract class is a class that is declared with abstract keyword. It may have abstract methods and non abstract methods.

Q. Can we instantiate an abstract class?
Answer: No

Q. Can we instantiate an interface?
Answer: No

Q. Can we create a static method in an interface?
Answer: No, we can't create static methods in an interface.

Q. Can we create a static method in an abstract class?
Answer: Yes, we can create static methods in an abstract class.

Q. Can we create a static method in a class?
Answer: Yes, we can create static methods in a class.

Q. Can we create a static method in a static nested class?
Answer: Yes, we can create static methods in a static nested class.

Q. Can we create a static method in a non static nested class (inner class)?
Answer: No, we can't create static methods in a non static nested class (inner class).

Q. What is the Object class?
Answer: Object class is the root class in the class hierarchy tree in Java.

Q. What is the difference between == and .equals()?
Answer: == compares the memory location of two objects while .equals() compares the contents of two objects.

Q. What is a constructor?
Answer: A constructor is a special method that is used to initialize a new object.

Q. Can we create an object without calling a constructor?
Answer: Yes, we can create an object using reflection API, deserialization and cloning.

Q. Can we create an object without using new keyword?
Answer: Yes, we can create an object using reflection API, deserialization and cloning.

Q. What is the difference between "is-a" and "has-a"?
Answer: "is-a" is used to denote inheritance while "has-a" is used to denote composition.

Q. What is composition?
Answer: Composition is a design technique in object oriented programming.

Q. Can we override a static method?
Answer: No, we can't override a static method.

Q. Can we override a private method?
Answer: No, we can't override a private method.

Q. Can we override a final method?
Answer: No, we can't override a final method.

Q. Can we override a final class?
Answer: No, we can't override a final class.

Q. Can we override the static keyword?
Answer: No

Q. Can we override the private keyword?
Answer: No

Q. What is the difference between final, finally and finalize?
Answer: final is a keyword, finally is used with try-catch block and finalize() is a method.

Q. What is the purpose of finalize()?
Answer: finalize() method is called just before an object is garbaged collected.

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Q. What is the difference between checked and unchecked exceptions?
Answer: Checked exceptions are checked at compile time while unchecked exceptions are not checked at compile time.

Q. What is the difference between ClassNotFoundException and NoClassDefFoundError?
Answer: ClassNotFoundException is a checked exception while NoClassDefFoundError is an error.

Q. What is the difference between Error and Exception?
Answer: Error is an irrecoverable condition while Exception is a condition that can be handled.

Q. What is the difference between checked exceptions and runtime exceptions?
Answer: Checked exceptions are checked at compile time while runtime exceptions are not checked at compile time.

Q. What is the difference between NullPointerException and ArrayIndexOutOfBoundsException?
Answer: NullPointerException occurs when a variable points to null while ArrayIndexOutOfBoundsException occurs when an array is accessed with an illegal index.

Q. What is the difference between ClassCastException and ClassNotFoundException?
Answer: ClassCastException occurs when a wrong type is used while ClassNotFoundException occurs when a class is not found in the classpath.

Q. What is the difference between throw and throws?
Answer: throw is used to throw an exception while throws is used to declare exceptions.

Q. What is the difference between Vector and ArrayList?
Answer: Vector is synchronized while ArrayList is not synchronized.

Q. What is the difference between HashMap and Hashtable?
Answer: HashMap is not synchronized while Hashtable is synchronized.

Q. What is the difference between HashMap and ConcurrentHashMap?
Answer: HashMap is not synchronized while ConcurrentHashMap is synchronized.

Q. What is the difference between Iterator and ListIterator?
Answer: Iterator can be used with any collection while ListIterator can be used with List implementations only.

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Q. What is the difference between Comparable and Comparator?
Answer: Comparable is used to define natural ordering while Comparator is used to define custom ordering