Java Descriptive Questions & Answers (40)

1.What do you mean by object and class?

Ans. Any type of class and variables are called object. Object have state and behaviors.

Class is a template for creating object. Class defines the properties and behaviors for objects.

2.What do you mean by inheritance?

Ans. Inheritance can be defined as the process where one class acquired the properties of another. We have to use extends key word for creating inheritance.

**3. What do you mean by narrowing and widening? Give an example of them.**

**Conversion from a number with a smaller range of magnitude ( like int to long or long to float ) is called widening. For example, converting the int 2147483647 to float produces 2.14748365e9 or 2,147,483,650. The difference is usually small, but it may be significant.**

**Conversion from a number with a magnitude range into smallest ( like int to long or long to float ) is called narrowing. For example, converting the float 3.0e19 to long yields 9223372036854775807, a very different number.**

**4. What do you mean by „super( )‟ and „this( )‟ keyword?**

**this( ) & super( ) is a keyword.**

**"super( )" is used to invoke the super class’s methods and constructors.**

**"this( )" is used to invoke a constructor of a same class , its pointing the same class object.**

**5. Write down the difference between overloading and overridden.**

**Overriding - same method names with same arguments and same return types associated in a class and its subclass.**

**When two and more methods are declared in the same class but different parameter is called method overloading.**

**6. Where we use abstract and final keyword?**

Final is a [non-access modifier](https://www.geeksforgeeks.org/access-and-non-access-modifiers-in-java/) applicable **only to a variable, a method or a class**. When a variable is declared with final keyword, its value can’t be modified, essentially, a constant.

**Abstract: abstract keyword can be applied to class, interface and method. class\_ Contains unimplemented methods. interface\_ All interfaces are abstract. method\_ No body, only signature.**

**7. Write down the difference between interface and abstract class?**

**Interface: An interface is a collection of abstract methods.**

1. **Using key word “Interface ” have to declared a name of Interface.**
2. **Support multiple inheritance.**
3. **Creating object is impossible of interface.**
4. **It can be final and static.**

**Abstract:**

1. **There is no body in abstract class.**
2. **It must be voerriden.**
3. **It can never be final and static.**

**41. What is abstraction?**

**Abstraction is the process of hiding the implementation details and showing only the functionality to the user.**