1-Define Class.?

A class is nothing but a blueprint or a template for creating different objects which defines its properties and behaviors. Java class objects exhibit the properties and behaviors defined by its class. Aclass can contain fields and methods to describe the behavior of an object.

2-Define Object...

Object - Objects have states and behaviors. Example: A dog has states - color, name, breed as well as behaviors – wagging the tail, barking, eating. An object is an instance of a class. Class - A class can be defined as a template/blueprint that describes the behavior/state that

3-Instance.?

The new operator instantiates a class by allocating memory for a new object and returning a reference to that memory. Note: The phrase "instantiating a class" means the same thing as "creating an object." When you create an object, you are creating an "instance" of a class, therefore "instantiating" a class.

4-Encapsulation.?

Encapsulation is one of the four fundamental OOP concepts. The other three are inheritance, polymorphism, and abstraction. Encapsulation in Java is a mechanism of wrapping the data (variables) and code acting on the data (methods) together as a single unit.

5-Information Hiding.?

Information hiding is a powerful programming technique because it reduces complexity. One of the chief mechanisms for hiding information is encapsulation -- combining elements to create a larger entity. The programmer can then focus on the new object without worrying about the hidden details.

6-Constructor.?

Constructor java tutorial: Java constructors are the methods which are used to initialize objects. Constructor method has the same name as that of class, they are called or invoked when an Object of class is created and can't be called explicitly.

Constructor Overloading in Java. Constructor overloading is a technique in Java in which a Class can have any number of constructors that differ in parameter lists. The compiler

differentiates theseconstructors by taking into account the number of parameters in the list and their type.

8-Inheritance.?

Inheritance is one of the feature of Object-Oriented Programming (OOPs). Inheritance allows a class to use the properties and methods of another class. ... This is because Java does not support multiple inheritance. The superclass and subclass have "is-a" relationship between them.

9.Plateform Independance.?

platform independence means that the same program works on any platform (operating system) without needing any modification. In the case of Java the application runs in a Java Virtual Machine which itself isn'tplatform independent...

10-Byte Code.?

Programming code that, once compiled, is run through a virtual machine instead of the computer s processor. ... Bytecode is the compiled format for Java programs. Once a Java program has been converted to bytecode, it can be transferred across a network and executed by Java Virtual Machine (JVM).

11-Function Overloading.?

Method Overloading is a feature that allows a class to have two or more methods having same name, if their argument lists are different. In the last tutorial we discussed constructor overloading that allows a class to have more than one constructors having different argument lists.

12-Function Over-Riding.?

Overriding in Java. ... When a method in a subclass has the same name, same parameters or signature and same return type(or sub-type) as a method in its super-class, then themethod in the subclass is said to override the method in the super-class.

13-Access Specifiers.?

Java Access Specifiers (also known as Visibility Specifiers) regulate access to classes, Java Access Specifiers (allowed Specifiers determine whether a field or method in a class, fields and methods in Java. These Specifiers determine whether a field or method in a class, fields and methods in Java. The method in another class or sub-class. Access can be used or invoked by another method in another class or sub-class. Access Specifiers can be used to restrict access. TYPE: Private, Public, Protected.

14-Final Data Members.?

Final variables are often declared with the static keyword in Java and are treated as constants. For example: ... Note: A class declared as final cannot be extended or inherited (i.e, there cannot be a subclass of the super class). It is also good to note that methods declared as final cannot be overridden by subclasses.

15-Final Classes.?

Writing Final Classes and Methods. You can declare some or all of a class's methods final. You use the final keyword in a method declaration to indicate that the method cannot be overridden by subclasses. The Object class does this—a number of its methods are final.

16- Concrete Class.?

A concrete class is a class that has an implementation for all of its methods that were inherited from abstract or implemented via interfaces. It also does not defineany abstract methods of its own. ... Therefore it can be inferred that any class that is not an abstract class or interface is a concrete class.

17-Package.?

A package is a namespace that organizes a set of related classes and interfaces. Conceptually you can think of packages as being **similar** to different folders on your computer.