

## Chapter 1 : Core java black book by nageshwar rao pdf

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These are the questions frequently asked in Java interviews. Go through these Questions this would be helpful to you.. If you are already attended any interviews on java you might have faced most of the questions given below. Please leave a comment if you have any queries. Ans Pointers lead to confusion for a programmer. Pointers may crash a program easily, for example, when we add two pointers, the program crashes immediately. Using pointers, harmful programs like Virus and other hacking programs can be developed. Because of the above reasons, pointers have been eliminated from java. A method is a function that is written in a class. We do not have functions in java; instead we have methods. This means whenever a function is written in java, it should be written inside the class only. Class loader subsystem of JVM will allocate the necessary memory needed by the java program. Garbage collector uses many algorithms but the most commonly used algorithm is mark and sweep. How can you call the garbage collector? Garbage collector is automatically invoked when the program is being run. It can be also called by calling gc method of Runtime class or System class in Java. An API document is a. API document is helpful for the user to understand how to use the software or technology. Both methods are used to display the results on the monitor. When main method is written without String args[] as: `Public static void main` The code will compile but JVM cannot run the code because it cannot recognize the main as the method from where it should start execution of the Java program. Remember JVM always looks for main method with string type array as parameter. Float can represent up to 7 digits accurately after decimal point, where as double can represent up to 15 digits accurately after decimal point. Unicode system is an encoding standard that provides a unique number for every character, no matter what the platform, program, or language is. Unicode uses 2 bytes to represent a single character. It always fills 0 in the sign bit. Control statements are the statements which alter the flow of execution and provide better control to the programmer on the flow of execution. They are useful to write better and complex programs. From the second time only the condition is observed. This means that the programmer does not have control right from the beginning of its execution. In a while loop, the condition is tested first and then only the statements are executed. This means it provides better control right from the beginning. Hence, while loop is more efficient than do.. A collection represents a group of elements like integer values or objects. Examples for collections are arrays and java. Goto statements lead to confusion for a programmer. Especially in a large program, if several goto statements are used, the programmer would be perplexed while understanding the flow from where to where the control is jumping. Return statement is used inside a method to come out of it. Arrays are created on dynamic memory by JVM. There is no question of static memory in Java; every thing variables, array, object etc. Yes , we can call the main method of a class from another class using Classname. At the time of calling the main method, we should pass a string type array to it. String is a class in java. But in Java, all classes are also considered as data types. So we can take String as a data type also. This is because a use can create a class. Object reference is a unique hexadecimal number representing the memory address of the object. It is useful to access the members of the object. It does not compare the contents of the objects. While comparing the strings, equals method should be used as it yields the correct result. String constant pool is a separate block of memory where the string objects are held by JVM. If a string object is created directly, using assignment operator as: In the first statement, assignment operator is used to assign the string literal to the String variable s. In this case, JVM first of all checks whether the same object is already available in the string constant pool. If it is available, then it creates another reference to it. In the second statement, new operator is used to create the string object; in this case, JVM always creates a new object without looking in the string constant pool. String class objects are immutable and hence their contents cannot be modified. StringBuffer class objects are mutable, so they can be modified. Moreover the methods that directly manipulate data of the object are not available in String class. Such methods are

available in StringBuffer class. StringBuffer class is synchronized and StringBuilder is not. When the programmer wants to use several threads, he should use StringBuffer as it gives reliable results. If only one thread is used. StringBuilder is preferred, as it improves execution time. Object oriented programming approach is a programming methodology to design computer programs using classes and objects. A class is a model for creating objects and does not exist physically. An object is any thing that exists physically. Both the classes and objects contain variables and methods. Encapsulation is a mechanism where the data variables and the code methods that act on the data will bind together. For ex,if we take a class, we write the variables and methods inside the class. Thus, class is binding them together. So class is an example for encapsulation. Hiding the unnecessary data from the user and expose only needed data is of interest to the user. A good example for abstraction is a car. Any car will have some parts like engine, radiator, mechanical and electrical equipment etc. The user of the car driver should know how to drive the car and does not require any knowledge of these parts. For example driver is never bothered about how the engine is designed and the internal parts of the engine. This is why, the car manufacturers hide these parts from the driver in a separate panel, generally at the front. It creates new classes from existing classes, so that the new classes will acquire all the features of the existing classes is called inheritance. Thus, polymorphism represents the ability to assume several different forms. In programming, we can use a single variable to refer to objects of different types and thus, using that variable we can call the methods of the different objects. Thus a method call can perform different tasks depending on the type of the object. Hash code is unique identification number allotted to the objects by the JVM. This hash code number is also called reference number which is created based on the location of the object in memory, and is unique for all objects, except for String objects. No, if we declare a class as private, then it is not available to java compiler and hence a compile time error occurs, but inner classes can be declared as private. A Constructor is called concurrently when the object creation is going on. JVM first allocates memory for the object and then executes the constructor to initialize the instance variables. By the time, object creation is completed; the constructor execution is also completed. Default constructor Default constructor is useful to initialize all objects with same data. Parameterized constructor is useful to initialize each object with different data. Default constructor does not have any parameters. Parameterized constructor will have 1 or more parameters When data is not passed at the time of creating an object, default constructor is called. When data is passed at the time of creating an object parameterized constructor is called. Constructors A constructor is used to initialize the instance variables of a class. A method is used for any general purpose processing or calculations. A constructor is called at the time of creating object. A method can be called after creating the object. A constructor is called only once per object. A method can be called several times on the object.

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