

Questions and answers for core java

Is java a platform independent language?

⇒ Yes, java is a platform independent language.

Is java a pure object oriented programming language?

⇒ A pure object oriented programming language supports or have features which treats everything inside a program as objects. But in java the predefined class doesn't deals with object that's why it is not a pure OOP language.

What is JIT compiler?

⇒ Just-In-Time compiler is used to improve the performance. It compiles parts of the bytecode that have similar functionalities at the same time, and hence reduces the amount of the time needed for compilation. It is used to improve the performance of JVM.

How many keywords in java?

⇒ 52

How many loops are present in java?

⇒ 4

How many access modifiers are present in java?

⇒ Private, Public, Protected and Default.

Which loop is entry controlled loop and exit controlled loop in java?

⇒ While and for both are entry controlled loop and Do-while is exit controlled loop.

What is the difference between index and length?

⇒ Index starts from 0 and length starts from 1.

Which approach is followed by java?

⇒ Bottom-up

What is used for print a statement is new line?

⇒ In, println

What is count in java?

⇒ Keyword

How many flavors in java?

⇒ 3

What is the full form of J2SE?

⇒ Java 2 Standard Edition

What is the full form of J2ME?

⇒ Java 2 Mobile Edition

What is the full form of J2EE?

⇒ Java 2 Enterprise Edition

What is JVM?

⇒ Interpreter

What is javac in java and who takes the responsibility to convert a .java file to .class file?

⇒ Compiler

What was the name of java when it is first developed?

⇒ OAK

JVM is written in which language?

⇒ It is written in c by using of some c++ libraries. But Oracle JVM is written in c++.

How many errors are present in java?

⇒ Syntax error, Logical error, Runtime error.

How many comments are present in java?

⇒ Single line comment, Multiple line comment.

What is the feature that JVM provides?

⇒ Security(By generating the .class file or byte code) there are many other features are present in JVM.

Which operators are not supported in java?

⇒ Strict comparison operators. (==, !=)

Which is used to find and debug the java program?

⇒ JDB(Java Debugger)

What is &&?

⇒ Logical And

What is jar in java?

⇒ Java Archive

What is use of break?

⇒ It helps to exit from current iteration and exit from switch body.

What is the meaning of nameless object?

⇒ Object that has no reference.

Array is which kind collection in java?

⇒ Collection of homogenous values.

What is the name of []?

⇒ SubScript Operator.

The class definitions ended by what?

⇒ Curly braces = {}

Which operator connects the class object to its member?

⇒ Dot operator (.)

What is name of function in java?

⇒ Method.

What is a keyword is?

⇒ Reserved Word

Is loop a feature of java?

⇒ No

What is final?

⇒ It is a keyword.

If we want to fix the value of variable, then what to do?

⇒ We should declare the variable as final.

Methods compulsory contains what?

⇒ Parenthesis = ()

What is the return type of chatAt() method?

⇒ Char

What is the return type of equals?

⇒ Boolean

What is System in System.out.println?

⇒ Class

What is args in String[] args?

⇒ Array variable

What is String[] args in public static void main (String[] args)

⇒ Command Line Argument

What method is used in java to convert a string to int?

⇒ Integer.parseInt

Which loop executes at least once in any situation?

⇒ Do-while

What is super in java?

⇒ Keyword

Why super keyword is used?

⇒ We use super keyword to call super class's variable, method and constructor.

What is this in java?

⇒ Keyword

What is the name of the keywords are used to perform interface and inheritance?

⇒ Inheritance – extends and Interface – implements.

Which OOP feature provides code reusability?

⇒ Inheritance

What helps us to perform multiple inheritance?

⇒ Interface

What is final?

⇒ Keyword and non-access modifier

Name of some non-access modifier

⇒ Final, static, abstract

If we declare a member method as static. Then it cannot access what?

⇒ Non-static members

What is used to wrapping up of data and methods together?

⇒ Encapsulation

What is the size of int and double?

⇒ Int = 4 bytes and double = 8 bytes

How many datatypes in java?

⇒ Primitive and non-primitive

What is the default value of Boolean datatype?

⇒ False

How many inheritance are present in java?

⇒ Simple, multilevel, hierarchical, hybrid inheritance

What is run time and compile time polymorphism?

⇒ Compile time – method overloading

Run time – Method overriding

If a super class methods are declared as protected and a sub class extends it, then what are the members in super class will behave to sub class?

⇒ Like private

Can we change the return-type of overridden method?

⇒ Yes , by using the concept of co-varient.

What is the another name of runtime error?

⇒ Exceptions

If a method doesn't have any body and always ends with semicolon then what kind of method is this?

⇒ Abstract method

Can we create an abstract class without abstract method?

⇒ Yes

If we create an abstract method then what is needed to change in property of abstract method containing class?

⇒ We need to declare the class as abstract.

Which class is super class of every class in java?

⇒ Object

What is a constructor?

⇒ It is a special type of method

What is the name of constructor that is contained by every java class?

⇒ Default constructor

Why constructor is used?

⇒ Initialize the object

If a constructor contains object reference as parameter then what is the name of the constructor?

⇒ Copy-constructor

Which block executes at first?

⇒ Static block

Which class we cannot extend to the sub class?

⇒ Final

What is the name of the package, where Scanner class is defined?

⇒ Java.util package

What we use for user input at runtime?

⇒ Scanner, Console

Which scanner class method is used to read string value?

⇒ next(), nextLine()

Which data type is largest integer datatype?

⇒ Long

Which keyword is not a part of exception handling?

⇒ Thrown

Which keyword is used to monitor the exception?

⇒ Try

What is the name of the package, where Exception class is defined?

⇒ Java.lang

Which block executes every time whether exception occurs or not?

⇒ Finally

What is the datatype of thread priority?

⇒ Integer

What is the maximum and minimum thread priority?

⇒ Minimum is 1 and maximum is 10. In default thread priority is 5 for every threads.

How we can use multithreading?

- ⇒ 1. Using runnable interface
- 2. By extending thread class

Which method is called implicitly by thread start() method?

⇒ run()

Which method must be implemented by a thread?

⇒ run()

Where we can assign the final keyword?

⇒ Variable, Class, Method

Which keyword is used to refer current object of a class?

⇒ this

Where an object of a class get memory?

⇒ Heap

What is the approach of method calling?

⇒ Last In First Out(LIFO)

What are the two stage for program execution used by java?

⇒ Compiler and Interpreter

State a name of reference type.

⇒ class

What provides runtime environment where java bytecode to be executed?

⇒ JVM

Break, continue, return, try, catch, finally all are belongs to in which statement?

⇒ Transfer statement

What is byte code in java?

⇒ A code that is generated by javac.

What is the name of the package where all the collection classes are present?

⇒ Java.util

State a name of a class which is not part of java collection framework.

⇒ Queue

State a name of an interface which is not part of java collection framework.

⇒ SortedList

What is a collection?

⇒ It is a collection of group of objects

String str = new String("Mario"). In this object creation how many objects are created for str?

⇒ Two, one is for object creation and another is for memory allocation.

Can we overload main method?

⇒ Yes we can. But one thing to remember that JVM always calls the main() method and it doesn't call an overloaded method.

What is the name of the keyword, we cannot use with constructor?

⇒ Static

What is the compilation command used for user defined package?

⇒ javac -d . class_name.java

What is the ASCII value of space character?

⇒ 32

Name of the blocks are placed after try block.

⇒ Catch and finally

How many constructors are present in java?

⇒ Default, private, parameterized, copy

Can we run a java program without using main method?

⇒ Yes, by using static block

When we use the @Override annotation?

⇒ When we need to override any method.

What is the size of int arr[] = new int[5] ?

⇒ 20

Array elements are always stored in what kind of memory location?

⇒ Continuous memory location

Where we can use the length attribute?

⇒ To find the length of an array.

Where we can use the length() method?

⇒ To find the length of a string

In java, what is Integer?

⇒ A predefined class

Give some examples of compound assignment operators

⇒ += *= /= -=

Which method have same name as class name?

⇒ Constructor

What is the name of the method where we can pass command line arguments?

⇒ main()

Which datatype is used to store command line arguments?

⇒ String

What is the keyword is used to define an abstract class?

⇒ abstract keyword

What is the name of the package where abstract keyword is placed?

⇒ java.lang

If a class extends an abstract class but doesn't define all of it's method then it will become as?

⇒ Abstract

In which language JVM is developed?

⇒ JVM written in c with help of some c++ libraries. But oracle JVM is written in c++.