## what are the different buzz words used for java?

Simple

Java is designed to be easy to learn. If you understand the basic concept of OOP Java, it would be easy to master.

### Secure

With Java's secure feature it enables to develop virus-free, tamper-free systems. Authentication techniques are based on public-key encryption.

Architecture-neutral

Java compiler generates an architecture-neutral object file format, which makes the compiled code executable on many processors, with the presence of Java runtime system.

### Portable

Being architecture-neutral and having no implementation dependent aspects of the specification makes Java portable. The compiler in Java is written in ANSI C with a clean portability boundary, which is a POSIX subset.

### Robust

Java makes an effort to eliminate error-prone situations by emphasizing mainly on compile time error checking and runtime checking.

### Multithreaded

With Java's multithreaded feature it is possible to write programs that can perform many tasks simultaneously. This design feature allows the developers to construct interactive applications that can run smoothly.

### Interpreted

Java byte code is translated on the fly to native machine instructions and is not stored anywhere. The development process is more rapid and analytical since the linking is an incremental and light-weight process.

### High Performance

With the use of Just-In-Time compilers, Java enables high performance.

### Distributed

Java is designed for the distributed environment of the internet.

### Dynamic

Java is considered to be more dynamic than C or C++ since it is designed to adapt to an evolving environment. Java programs can carry an extensive amount of run-time information that can be used to verify and resolve accesses to objects at run-time.

##### write hello world program and use commands javac,javap and java.

class hello{

public static void main(String[] args) {

System.out.println("hello world");

}

}

###### Output:-

#### C:\Users\lenovo>cd desktop

#### C:\Users\lenovo\Desktop>javac hello.java

#### C:\Users\lenovo\Desktop>java hello

#### hello world

#### C:\Users\lenovo\Desktop>javap hello

#### Compiled from "hello.java"

#### class hello {

#### hello();

#### public static void main(java.lang.String[]);

#### }

use jshell and try it

1.

“core java”.length()

jshell> "Core java".length()

$3 ==> 9

Arithmetic operations like “int answer = 6\*7”

jshell> int answer = 6\*7

answer ==> 42

3.1) Use references like this in arithmetic operations “$1”, which got generated in previous operations.

jshell> 6 \* $3

$7 ==> 54

3.2)Check various methods in a particular class with Math.<press tab> jshell> Math.

IEEEremainder( PI abs( acos( addExact( asin( atan( atan2( cbrt( ceil( class copySign( cos( cosh( decrementExact( exp( expm1( floor( floorDiv( floorMod( fma( getExponent( hypot( incrementExact( log( log10( log1p( max( min( multiplyExact( multiplyFull( multiplyHigh( negateExact( nextAfter( nextDown( nextUp( pow( random() rint( round( scalb( signum( sin( sinh( sqrt( subtractExact( tan( tanh( toDegrees( toIntExact( toRadians( ulp(