

What is java

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- Java is a popular programming language, created in 1995.
- It is owned by Oracle, and more than **3 billion** devices run Java.
- Java can be broadly defined as a general-purpose, object oriented, platform independent, concurrent programming language that runs very fast.
- General purpose implies that it is not constrained to one particular domain & can be used to develop a wide variety of applications.
- Object orientedness helps model real world scenarios.
- Platform independent
- Concurrent means multithreading that this enables the program to perform multiple activities at around the same time.
- Java is also fast.
- Java syntax is similar to C & C++.
- Simple & safe.
- Secure.
- Java comes with the rich library which includes pre-defined functionality & this library is Java API which is application programming interface.
- As a summary Java is

Simple:-

Java is easy to learn.

Most of the complex or confusing features in C++ are removed in Java like pointers.

Portable:-

Portable in the sense that they can be executed in any kind of computer containing any kind of operating system.

When an application written in Java is compiled, it generates an intermediate code file called as "bytecode".

Byte code helps Java to achieve portability.

Bytecode is not machine code but closely to machine code.

Secure:-

Java provides security through encapsulation.

We can write applets in Java which provide security.

Robust:-

An application is said to be robust (reliable) when it is able to give some response in any kind of context.