

\*\*\* What is platform independent vs. Java ?

\* C and C++ are platform dependent meaning that means the code they created on one system will not be executed on another system. If there is a change in system configuration.



\* C and C++ programs are portable but not platform independent.



\* Due to platform dependency, C and C++ programs are not suitable for Mobile Development.

How Java is platform independent ?

Platform (Source Code)

Java Compiler

Test.java (Bytecode)

Java Virtual Machine

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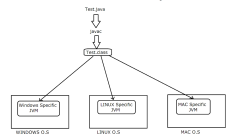
Platform (Bytecode)

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Platform (Bytecode)

\* In Java, whenever we write a program, the extension of the program must be ".java", this Java file we upload to java compiler for compilation process. If everything is fine then java compiler will generate a very special file called "Class" file (Byte code).

\* Now this class file we need to upload to JVM for execution of the program. The main purpose of JVM is to load and execute the class file as shown in the below diagram.



\* Java is platform dependent vs. Java is platform independent.

\* Based on our OS we need to download the appropriate JVM, this JVM plays a major role because JVM converts the class file into appropriate Operating System architecture format.

\* All the browsers are supporting Java technology. These browsers are known as JSP (Java Script Pages) browser.

What is the difference between bit code and byte code ?

Bit code is a binary code that is used to represent data in a computer system. It is a sequence of 0s and 1s.

Byte code is a binary code that is used to represent data in a computer system. It is a sequence of 0s and 1s.

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