

Why functions are called method in Java?

```
void m1() { } // Scope Resolution Operator
```

function

class Test

{ //In C++, We can write a function inside

as well as outside of the class.

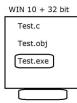
}

Method

In C++ language, there is a facility to write a function inside the class as well outside of the class by using scope resolution operator. But here we can't define a function inside the class only, we can't define a function outside of the class, that is why functions are called Method in Java.

From JDK 25 we can write a method without class which is known as "Compact source file" but here internally java compiler is generating a final class which is based on the file name.

** what is platform independence in Java ?



int x, y;
LOAD x and y in
the memory

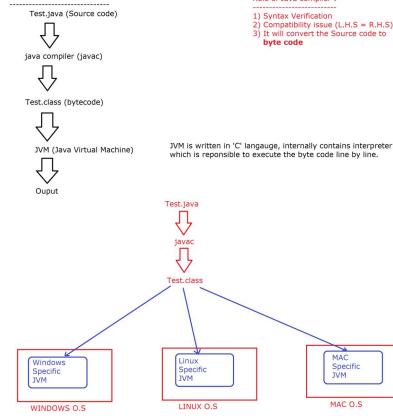


int x,y;
READ x and y from
the memory

C and C++ programs are platform dependent programs that means the .exe file created on one machine will not be executed on another machine if the system configuration is different.

That is the reason C and C++ programs are not suitable for website development.

How it is possible in java :



Whenever we write a java program, the extension of java program must be .java.

Now this .java file we submit to java compiler (javac) for compilation process. After successful compilation the compiler will generate a very special byte code file i.e. class file (also known as bytecode). Now this .class file we submit to JVM for execution purpose.

The role of JVM is to LOAD and EXECUTE the class file. Here JVM plays a major role because It converts the byte code into machine readable code instruction (Operating System format) so Java becomes platform independent language and it is highly suitable for website development.

Note :- Each OS (Windows, Linux, Mac) has its own JVM implementation that means JVM is platform dependent technology where as Java is platform Independent technology.

JVM internally contains an interpreter so it executes the code line by line. It is written in 'C' language hence platform dependent.

Note : All the browsers internally contain JVM are known as JEB (Java Enabled Browsers) browser.