

Java is one of the most popular programming platform available in the market today and from the last 26 years it is amongst the top 5 programming languages of the world.

Following are the most imp features which have made Java so popular in the software world:

1. Platform Independent : Before we can understand the meaning of platform independent, we must 1st understand the meaning of the word platform.

In the software world, the word platform is the environment in which a program runs. In simple words it is the combination of OS and CPU.

So windows + core i7 is one platform while

Linux + AMD(Advance Micro Devices) Athlon is another platform

Now being platform independent means that a program compiled on one platform can be executed on any other platform without rewriting or recompiling and Java has this ability with the help of **BYTE CODE** and...

Whenever we compile a Java program the Java compiler never **GENERATES MACHINE CODE**. Rather the Java compiler converts our program into an intermediate code called as **THE BYTE CODE**. This Byte code is not directly understandable to the machine (OS + CPU) , So a special software is require which converts this byte code into Machine understandable format and this software is called as **JVM (JAVA VIRTUAL MACHINE)**.

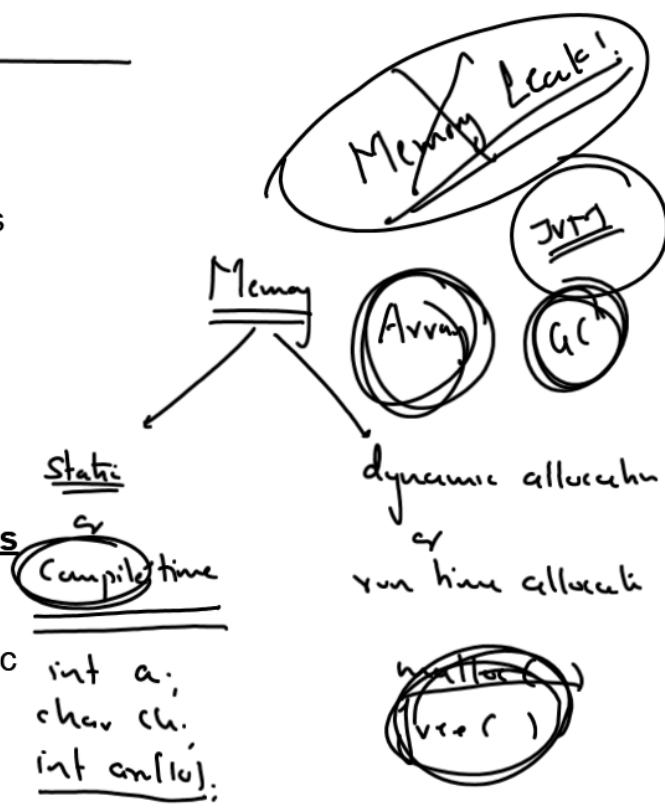
Thus wherever a JVM is present, there we can execute a Java byte code without rewriting or recompiling it.

This makes Java **platform independent** and truly justifies its punch line **WORA ( Write Once Run Anywhere)**

## 2. Automatic Memory Management

Java has very good automatic memory management. In other words it means that a Java developer or programmer only has to worry about memory allocation while the deallocation of memory is totally handled by JVM.

Due to this no **memory leaks** occur in Java and programmer can better concentrate on the main logic of his program.



Your next class will be on Thursday (18th Aug) at 5:30 pm

Telegram channel: [t.me/scajb9](https://t.me/scajb9)

or

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