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Why java is platform independent explain with example

Java is the platform independent language allows its end users to automatically access its source code on any other language. The source code can be used to work on another platform, making it an independent platform to work on. It's a human readable language that makes it preferable to a lot of people. Other languages are machine-level languages that the people cannot easily read. The solution to this problem is the use of a compiler when translating the high-level language into a language that is understandable by machines. Therefore, using setup is not necessary in java and it makes it an independent platform. The java code can be a series of machine instructions that can be run directly by CPU. Virtual machines can also interpret the representations. The intermediate representation is known as the Java Byte code. All the apps in Java are compiled by javac. The result of the JAVA compiler is the .class file or the bytecode and not the machine native code (as opposed to C compiler). The bytecode generated is a non-executable code and needs an interpreter to run on a machine. This interpreter is the JVM and thus the Bytecode is performed by the JVM. The main point here in Java is that the JVM depends on the operating system. So if you're running Mac OS X, you'll have a different JVM than if you're running Windows or another operating system. Brief History of Java Java, created in 1991 by James Gosling at solar microsystems. Earlier, Java, known as 'Oak'. Later, it, renamed as 'Green'. And finally, known as 'Java'. What is Java? Java, basically an open source programming language. Java requires no license to run. Why Java? People generally prefer Java because of its secure connections. It's also a reliable platform to work on. As Java- an open sourced language it also provides its users with the quick platform to work on. Moreover, according to a source, the company that owns Java claims to have java running on 3 billion devices worldwide. As a result, Java developers say that java is a safe platform to work with as it will continue to exist in the years to come worldwide. Properties of Java 1. Java is an independent platform We all know that Java, an independent platform and because of this feature, is acquired by many. Consequently, if we code anything on this platform, Java, it will also run successfully on other platforms. 2. Variety of methods Another reason why Java, used worldwide- it has a large standard library. It has hundreds of methods that allow the developers to code in any software of any package. 3. This is an object-oriented language programming can be done in a variety of styles, but the most popular style is the object-oriented programming style. The object-oriented programming style Due to its feature of cutting off a complex problem in Set. 4. Java was quickly earlier, java, being criticized for being slower, compared to other platforms, but now, characteristic of quickly taking away the hearts of many. Nowadays, Java, is compared to other programming language like Python and PHP. 5. Java is a solid platform Security, being the first priority making Java a better platform to work on. For managing the applications, the best platform to work on. Data privacy maintained It can automatically manage memory. Meaning of java Java- a platform independent language by helping Bytecode Portable language; JVM gets installed automatically. This is an independent language, while JVM is a dependent language. Also try reading difference between - Java and JavaScript Rails 6.1 were eventually launched. There seems to be a variety of memory optimizations for your Rails apps that need to increase their efficiency and speed. A variety of new features will also be launched soon. 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Your comment on this answer: Image source: TheVergeJava applies an object-oriented general purpose programming language and computing platform for the development. It's similar to C++, but a little advanced. Java can be freely downloaded and can also be freely sourced. Java was developed by James Gosling with his team members Mike Sheridan and Patrick Naughton. It was developed for Sun Microsystems Company in 1995.It was later conquered by Oracle Corporation.Java is simultaneously that is to say it can generate much statement simultaneously instead of following them up. Java is class-based and object-oriented programming language. It is a platform independent language, i.e. the compiled code can be run on any java-supporting platform. It runs on the logic of Write once, running anywhere. The platform that helps run and develop the apps written in java script is called java platform. Java consists of execution engine, a compiler, and a set of libraries. Java apps can run on any OS or processor. Why is a platform independent language? Java compiler produces a unique type of code called bee code as opposed to c compiler where compiler produces only natively executable code for a specific machine. When the Java app runs in a specific machine it is sent to java compiler, that converts this code into intermediate code called bytecode. This byte code is sent to Java virtual machine (JVM) that resides in the RAM of any operating system. JVM recognizes the platform it is on and converts the diligence into native machine code. Cence java called platform independent language. Detailed explanation: First, let's take a look at how apps are written and run, how they are run in C/C++ , which is bytecode and native code and ultimately how java program is run. In general, a program will be written in a high level language (i.e. human readable language) consisting of many phrases, words etc. that cannot be understood by a machine. There it needs to be converted into machine-level language. This work is done by the compiler. The compiler is an app that converts the code from high-level language (programming language) to machine-level language (Executable code). This executable code can be a series of instructions that are run directly by CPU or sent to intermediate virtual machine. When an app is written and compiled into C/C++ language, the code is converted directly into machine-readable language .i.e. executable code. This code is generated as .exe system. It has .exe the file can only run on specific operating system, that is, when the program is compiled into windows OS .exe that file can only run in windows OS and not on Unix OS. Therefore, C/C++ apps platform is said to depend. The generated .exe files are called as native codes. Native codes are the machine codes that are understood by the machines. For the specific app native code generated is different for each OS. The native code generated by Windows OS differs from native code generated by Unix OS. Also Read: 9 Reasons Why Java is Popular Among Developers and ProgrammersThe setup and management of the program process is completely different in JAVA language compared to C/C++ language. Here, Bytecodes is produced by an intermediate virtual machine. When the app is compiled by the compiler, the intermediate code generated is called Byte codes. Like native codes Are Byte codes are not executable codes. The virtual machine present in the machine performs these byte codes. These bytes can be run on any other platform, regardless of their generated platform. When an app is written and compiled in JAVA, a separate file is created for a composite program. This file is called bytecode in java. The .class directory created cannot be executed directly. This does not include executable codes. Instead it will be converted into executable code through a virtual machine machine the system. This diligence generated by the curated program is to achieve the purpose of platform improbability. Byte code generated in a specific platform can be run in any other platform, i.e. the byte code generated in windows OS can also be run in Unix OS. The one that makes this possible is the JVM (JAVA VIRTUAL MACHINE). When the app is written and compiled the compiler sends the generated byte codes to the JVM resentment in the machine and this JVM converts the byte codes into native code that are readable by a particular machine. Thus, the output is displayed. Regardless of the platform the JVM belongs to, the generated byte code can run on any JVM. The outputs of the bytecode running on any JVM will be the same. There the JAVA is called platform independent language. The abovementioned figure 1 and figure 2 clearly explain about the in C/C++ and JAVA, respectively. Respectively. Respectively.

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