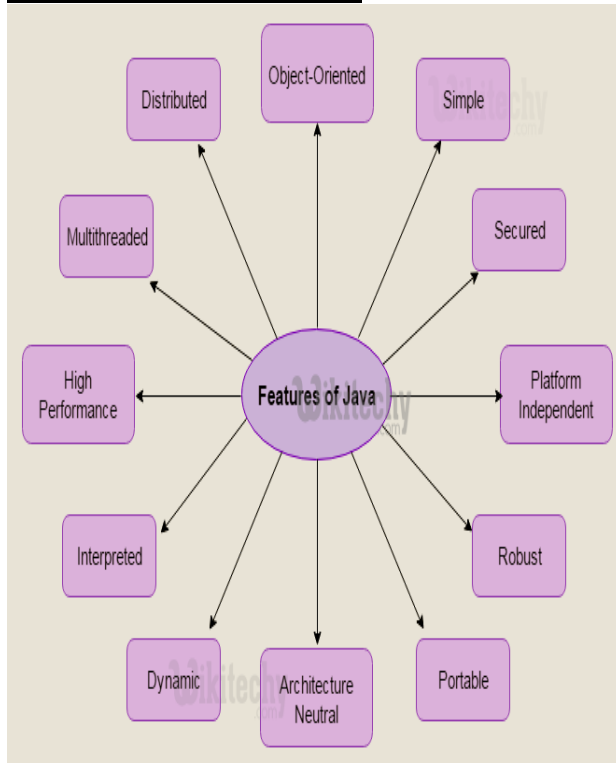


Features of Java:



1. Simple
2. Object Oriented
3. Platform Independent
4. Architectural Neutral
5. Portable
6. Robust
7. Secure
8. Dynamic
9. Distributed
10. Multithread
11. Interpretive
12. High Performance

1. Simple:-

Java is a simple programming language because:

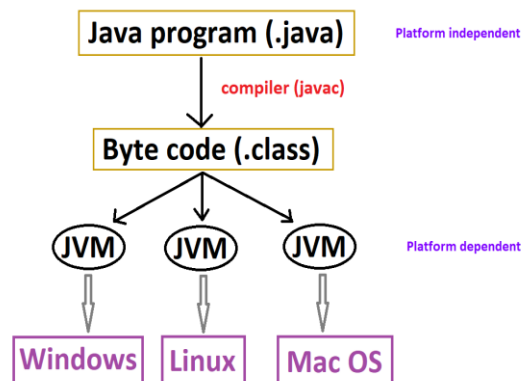
- Java technology has eliminated all the difficult and confusion oriented concepts like pointers, multiple inheritance in the java language.
- The c,cpp syntaxes easy to understand and easy to write. Java maintains C and CPP syntax mainly hence java is simple language.
- Java tech takes less time to compile and execute the program

2. Object Oriented:-

Java is object oriented technology because to represent total data in the form of object. By using object reference we are calling all the methods, variables which is present in that class.

3. Platform Independent :-

- Compile the Java program on one OS (operating system) that compiled file can execute in any OS (operating system) is called Platform Independent Nature.
- The java is platform independent language. The java applications allow its applications compilation one operating system that compiled (.class) files can be executed in any operating system.



4. Architectural Neutral:-

Java tech applications compiled in one Architecture (hardware----RAM, Hard Disk) and that Compiled program runs on any hardware architecture (hardware) is called Architectural Neutral.

5. Portable:-

In Java tech the applications are compiled and executed in any OS (operating system) and any Architecture (hardware) hence we can say java is a portable language.

6. Robust:-

Any technology if it is good at two main areas it is said to be ROBUST

1. Exception Handling

2. Memory Allocation

JAVA is Robust because

- JAVA is having very good predefined Exception Handling mechanism whenever we are getting exception we are having meaning full information.
- JAVA is having very good memory management system that is Dynamic Memory (at runtime the memory is allocated) Allocation which allocates and deallocates memory for objects at runtime.

7. Secure:-

- To provide implicit security Java provide one component inside JVM called Security Manager.
- To provide explicit security for the Java applications we are having very good predefined library in the form of java.Security.package.

8. Dynamic:-

Java is dynamic technology it follows dynamic memory allocation(at runtime the memory is allocated) and dynamic loading to perform the operations.

9. Distributed:-

By using JAVA technology we are preparing standalone applications and Distributed applications.

Standalone applications are java applications it doesn't need client server architecture.

web applications are java applications it need client server architecture.

Distributed applications are the applications the project code is distributed in multiple number of jvm's.

10. Multithreaded:-

- Thread is a light weight process and a small task in large program.
- If any tech allows executing single thread at a time such type of technologies is called single threaded technology.
- If any technology allows creating and executing more than one thread called as multithreaded technology called JAVA.

11. Interpretive:-

JAVA tech is both Interpretive and Compleitive by using Interpreter we are converting source code into byte code and the interpreter is a part of JVM.

12. High Performance:-

If any technology having features like Robust, Security, Platform Independent, Dynamic and so on then that technology is high performance.