

Java

Java language is a formal language that is communicate between java programmer and machine and machine to machine through JVM

Feature of java language

1. Simple
2. Object Oriented
3. Secure
4. Concurrent
5. Robust
6. High performance
7. Portable
8. Distributed
9. Architecture Neutral
10. Dynamic
11. WORA(write once and run anywhere)

Types of Java Edition

- | | |
|----------------------------|-----------|
| 1. Java Standard Edition | JSE |
| 2. Java Enterprise Edition | J2EE, JEE |
| 3. Java Micro Edition | J2ME |

Requirement to develop Java program

JDK (java development kit)

Editor

IDE (integrated development environment)

JDK is java development kit.

JDK = JRE+ Tool (compiler, etc.)

JRE= JVM+ lib+ runtime software environment

Phase

1. Compilation it is a process of translating source code into compiled code (byte code)
File extension XXXX.java → XXXX.class + YYY.class +
2. Execution it is a process in JVM of running compiled code (bytecode) to get output.
XXXX.class → processing (output)
Bytecode → Machine Language

Use of Java Language

1. Standalone Application
2. Web Application

3. Distributed Application
4. Mobile Application
5. Driver level Software