

JDK :-

Java Development kit - it is a complete package.

- it contains JRE, compiler & debugger, tools to write and build Java.



JRE :-

Java Runtime Environment -

- It contains JVM and libraries to run Java app.
- It runs bytecode.

JVM :-

Java Virtual Machine :-

it loads .class

- It executes byte code.
- execute instruction line by line.
- It is platform independent.

[memory managed]

How Java code Executes :-

• *.java



JDK [Javac compiler]



Bytecode (.class file)



JRE → Run the byte code.



JVM → Executes bytecode.



Class loader → Bytecode verifier → Interpreter JIT → OS

Compiler



To understand machine

First Program :-

blueprint to create object.

Public class Hello {

↗ start of class definition.

Public static void main (String [] args) {

method belong to the class itself.

Predefined class ← System.out.println ("Hello world");

in java-lang

}

}