

Dt : 12/8/2022

"James Gosling" - SunMicroSystem - 1991 - CodeWriter(Programmer)

WORA - Write Once and Run Anywhere

Test.gt (Green Talk)

OAK langauge

SILK DNA JAVA

Java Language

***imp**

Java Versions:

1995 - Java Alpha&Beta

1996 - JDK 1.0

1997 - JDK 1.1

1998 - JDK 1.2

2000 - JDK 1.3

2002 - JDK 1.4

2004 - Java5(Tiger)

2006 - Java6

2011 - Java7

2014 - Java8

2017 - Java9

2018 - Java10,Java11

2019 - Java12,Java13

2020 - Java14,Java15

2021 - Java16,Java17

2022 - Java18

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Note:

=>Java8,Java11 and Java17 are LTS(Long Term Support) products.

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faq:

wt is the diff b/w

(1)JDK

(2)JRE

(1)JDK:

=>JDK stands for 'Java Development Kit' and which hold the

following:

(a)Java Compiler

(b)Java Library

(c)JVM

(a)Java Compiler:

=>JavaCompiler will compile the Source code and generate

JavaByteCode.

(b)Java Library:

=>Java Library provide Pre-defined programming components which are used in constructing applications.

=>JavaLib is represented with the word 'java'.

=>JavaLib is collection of 'packages'.

=>packages are collection of 'Classes and Interfaces'.

=>Classes and Interfaces are Collection of

'Variables and Methods'

=>The following are some important packages of JavaLib:

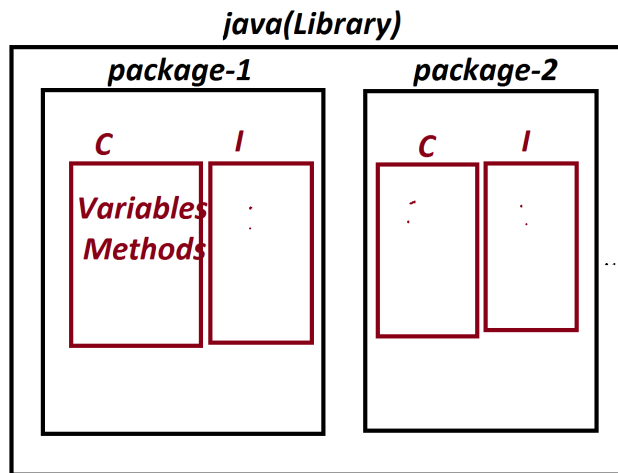
java.lang - Language package(default package)

java.io - Input-Output Stream package

java.net - Networking package

java.util - Utility package

Diagram:



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(c)JVM:

=>JVM Stands for 'Java Virtual Machine' and which is used to execute JavaByteCode and generate result.

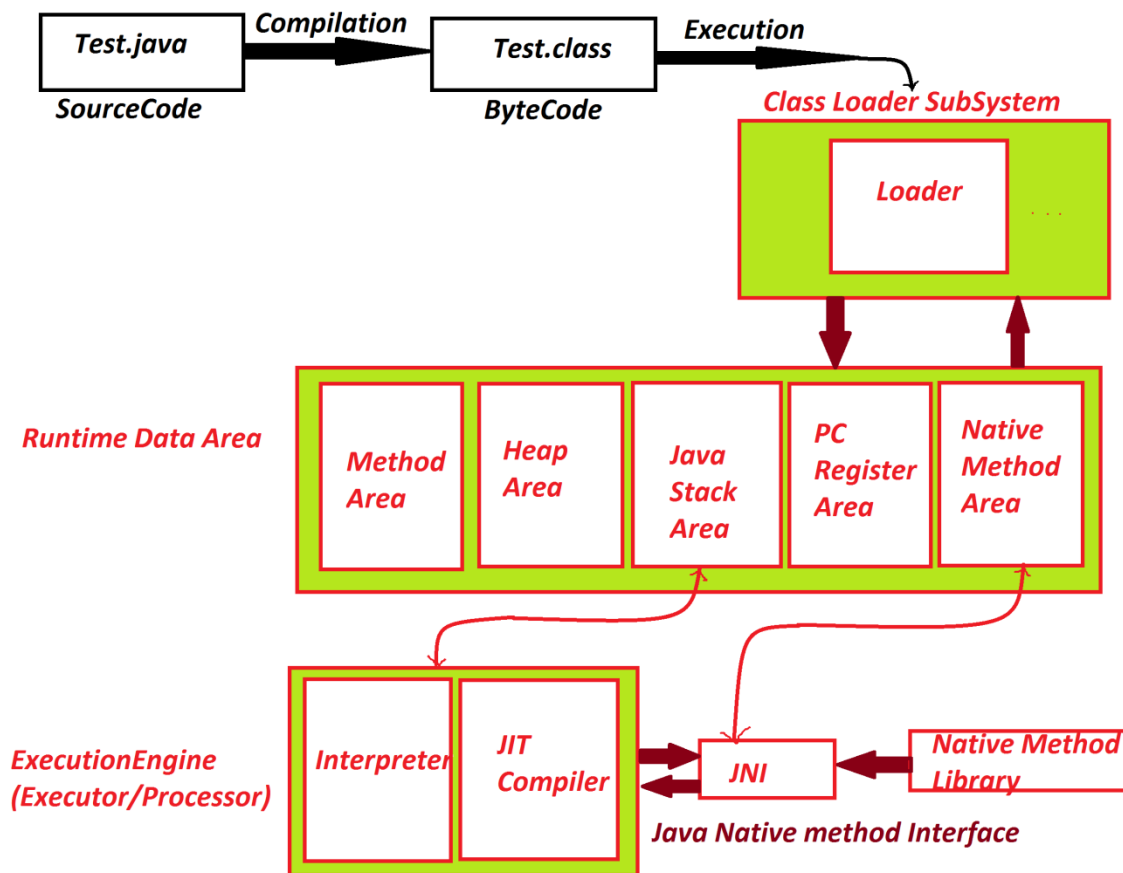
=>JVM internally divided into three partitions:

(1)Class Loader SubSystem

(2)Runtime Data Area

(3)Execution Engine

=>JVM Architecture:



faq:

define Virtual Machine?

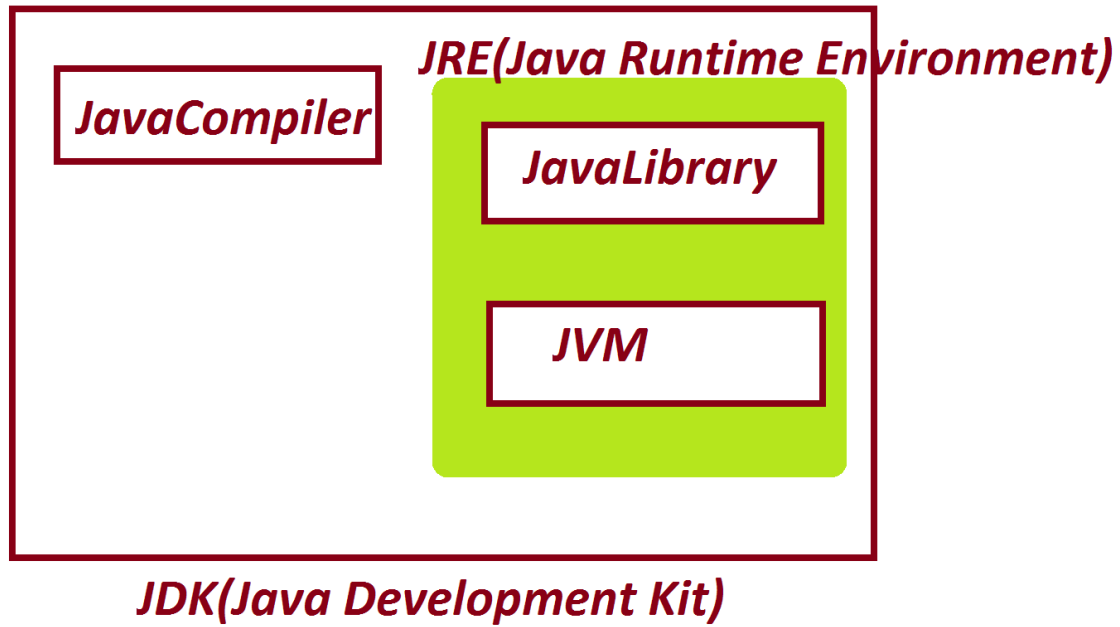
=>The S/w Component which internally having the behaviour like machine is known as Virtual Machine.

(2)JRE:

=>JRE stands for 'Java Runtime Environment' and which is Collection of "JavaLib and JVM".

=>JRE is an internal partition of JDK.

Diagram:



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Venkate