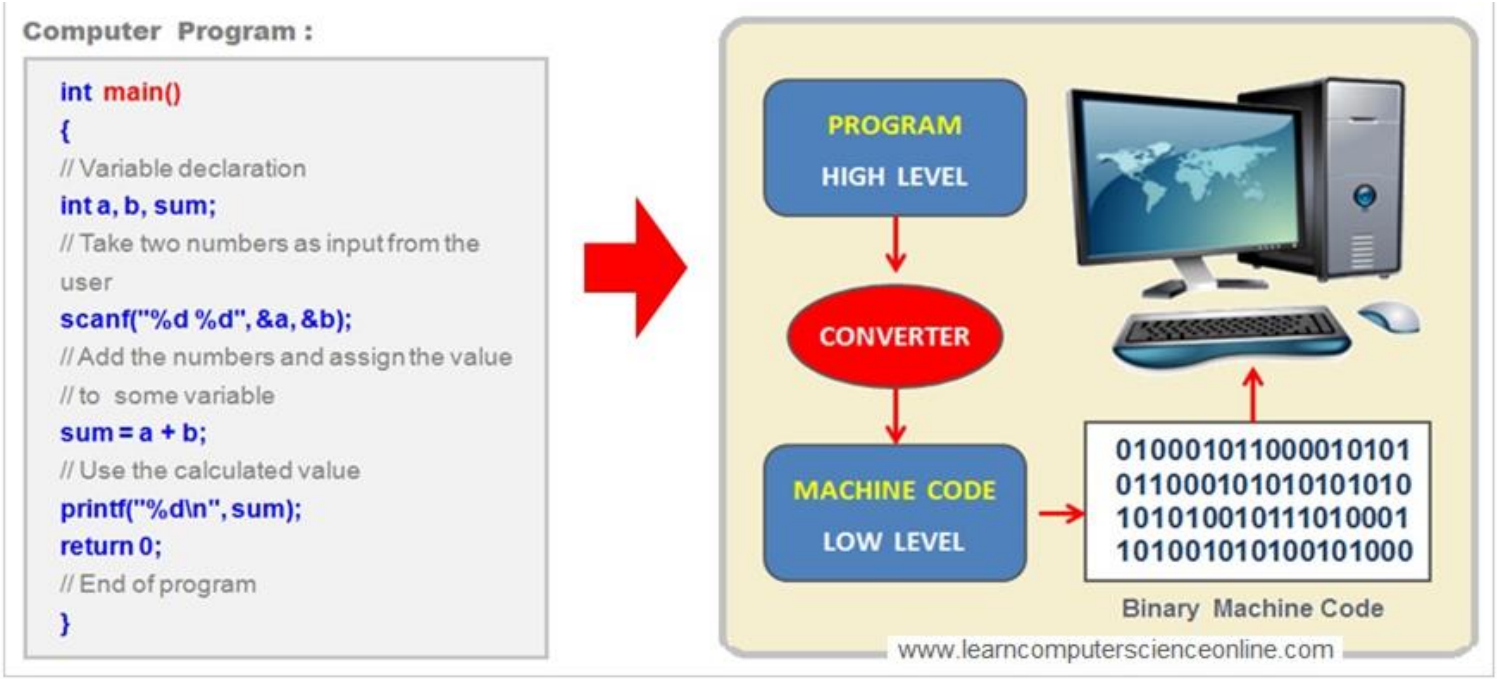
Introduction to Java

What is a computer program?



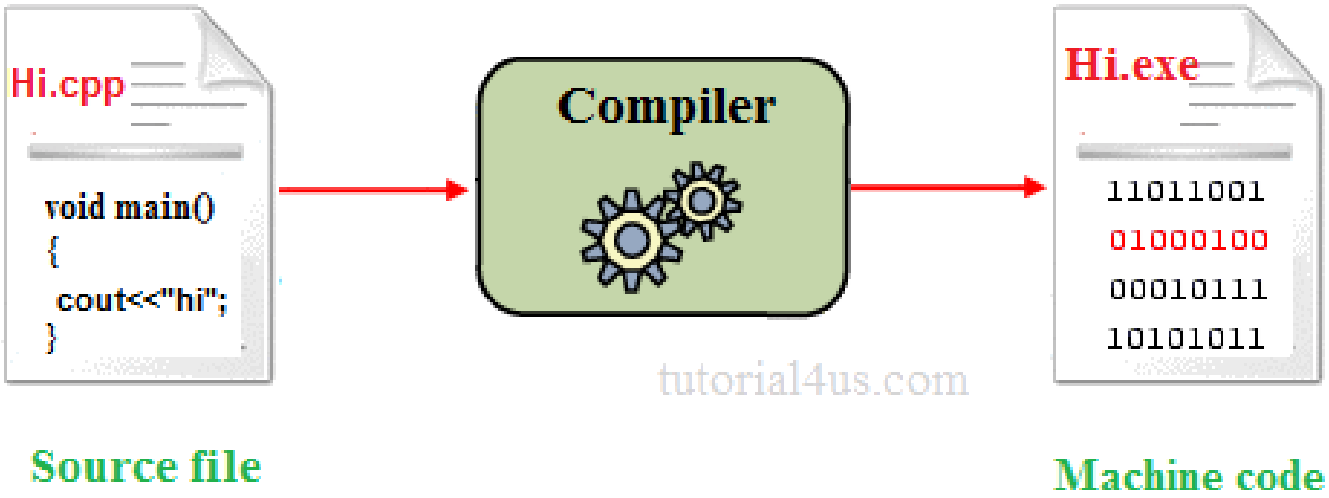
Software vs Program

- A software consists of bundles of programs and data files. Programs in a specific software use these data files to perform a dedicated type of tasks.
- A program consists of a set of instructions which are coded in a programming language like C, C++, PHP, Java etc.

CONTENT

- Introduction to Java
- Fundamentals of Java
- Object Orientated Concepts
- User Interface Development
- Database Management
- Version Controlling
- Desktop Application Architectures

Compiler


Hi.cpp
void main()
{
cout<<"hi";
}
Compiler
tutorial4us.com
Hi.exe
11011001
01000100
00010111
10101011
Source file
Machine code

What is Java?

Developed by Sun Microsystems (James Gosling)

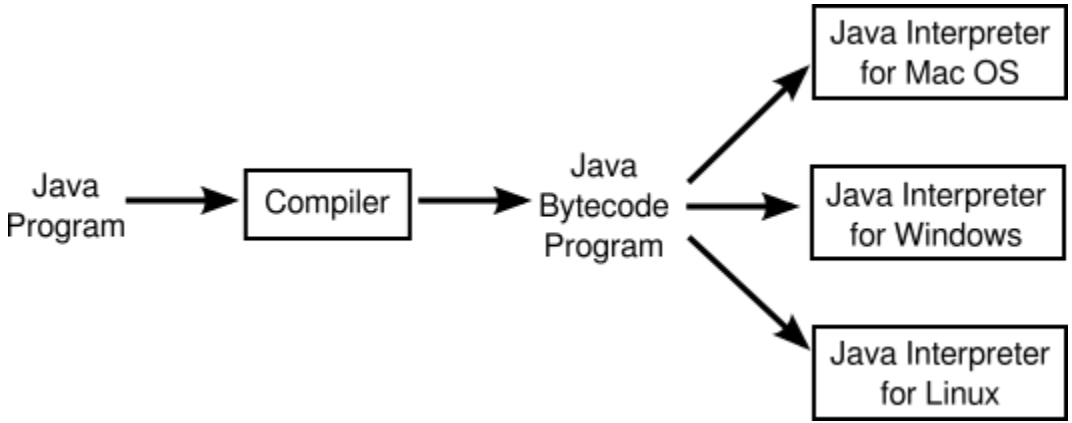
A general-purpose object oriented language

Based on C/C++

Designed for easy Web/Internet application development

Widespread acceptance

Java Interpreter



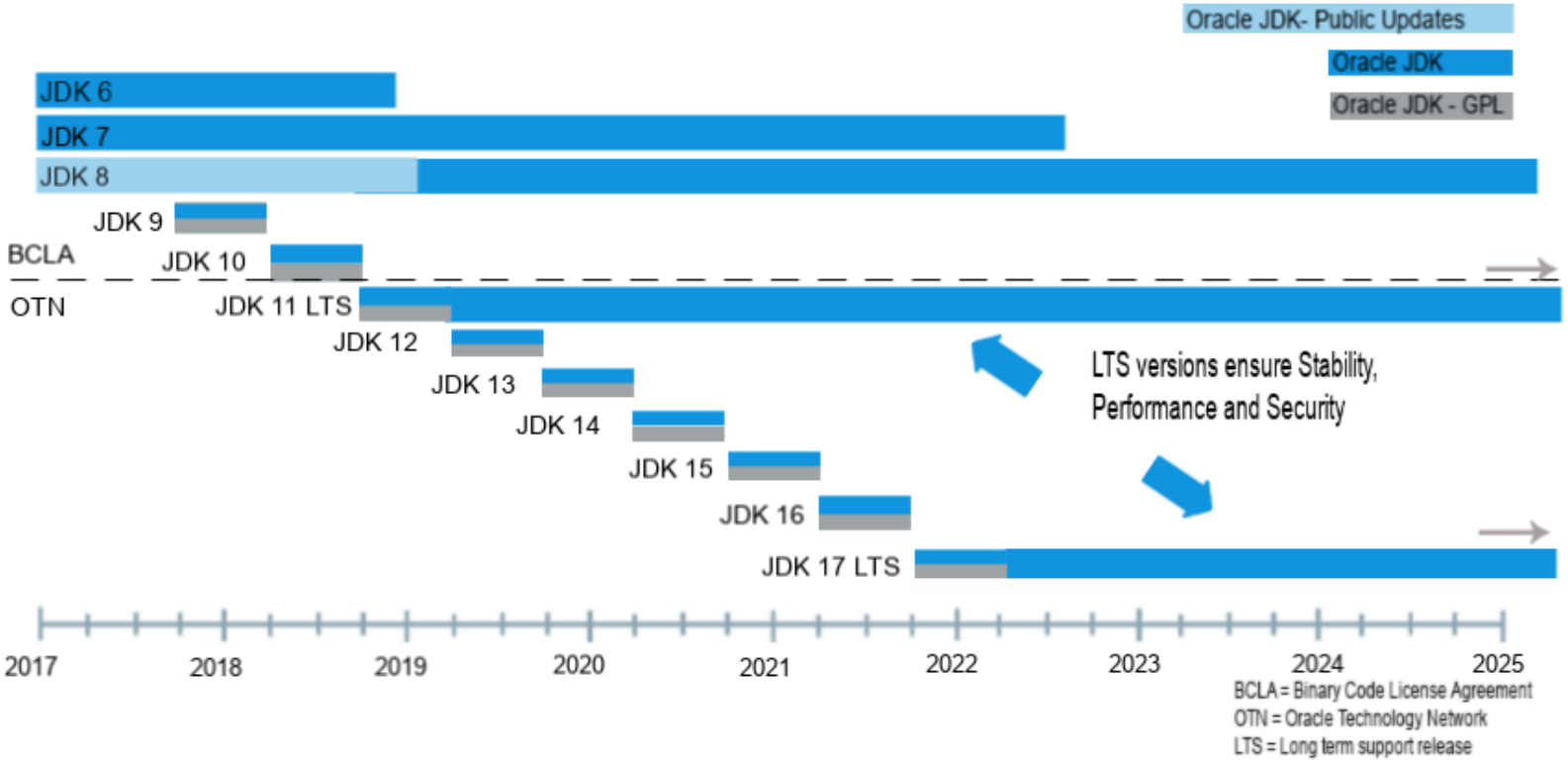
History of Java

- Originally developed by Sun Microsystems which was initiated by James Gosling and released in 1995 as core component of Sun Microsystems' Java platform (Java 1.0 [J2SE]).
- Java is a high-level programming language originally developed by Sun Microsystems and released in 1995. Java runs on a variety of platforms, such as Windows, Mac OS, and the various versions of UNIX.
- Oracle bought in for $7.4 billion in 2009.
- The new J2 versions were renamed as Java SE, Java EE, and Java ME respectively. Java is guaranteed to be Write Once, Run Anywhere. (1998)

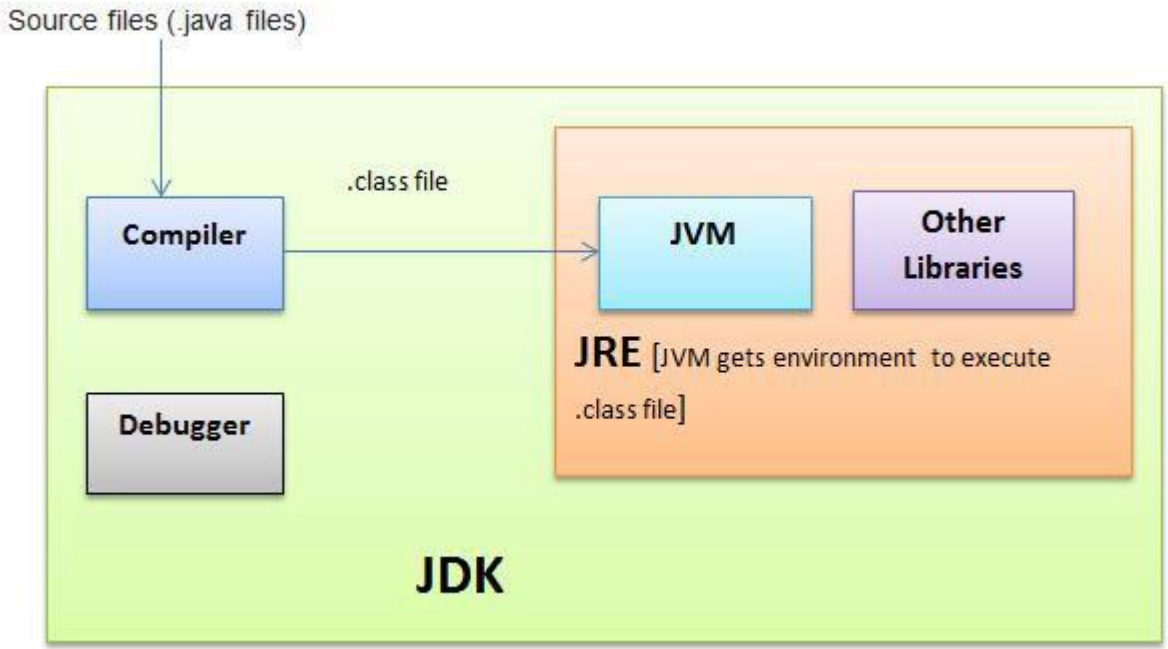
Is Java free?

Oracle has announced that from January 2019, Java SE 8 public updates will no longer be available for business, commercial or production use without a commercial license although it will remain free for general purpose computing usage.

Java Versions



JDK vs JRE vs JVM



ORACLE
+
OpenJDK

Let’s setup the development environment

- Install Java
- Install Notepad++
- Install NetBeans IDE