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# Introduction To Java



# Context And Dependency Injection

**Features of Java**

**Evolution in Java**

**Developing software in Java**

**Installation and Setting up Eclipse**

**Introduction to Eclipse IDE**

**Creating and Managing Java Projects**

**Use of Java docs**



# WHAT IS JAVA ?

- Java is Object Oriented Programming language as well as Platform.
- Java was developed by a team led by James Gosling at Sun Microsystems.
- Java is a first programming language which provide the concept of writing programs that can be executed using the web.

# WHERE IS JAVA USED

- Desktop Applications - Acrobat reader, Media player, Antiviruses etc.
- Web Applications - irctc.co.in , javatpoint.com etc.
- Enterprise Application – Banking Application, Business Application.
- Mobile.
- Embedded System.
- Games.
- Robotics.

# FEATURES OF JAVA

- Java is Simple.
- Java is Object Oriented
- Java is Distributed
- Java is Architecture Neutral
- Java is Robust
- Java is Interpreted and Compiled
- Java is Secure
- Java is Portable
- Java is Multi-Threaded



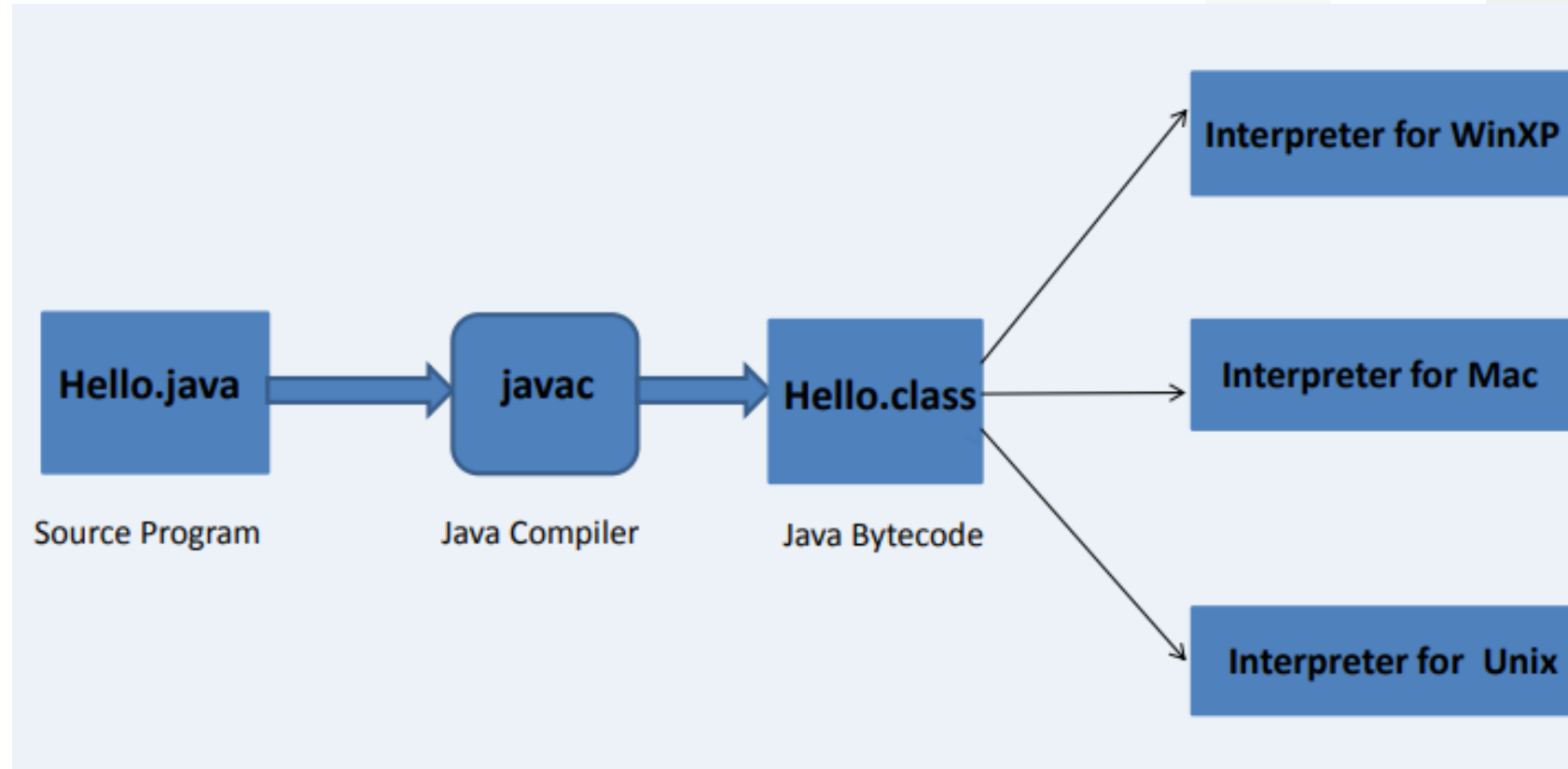
# Evolution of Java

- 1) James Gosling, Mike Sheridan, and Patrick Naughton initiated the Java language project in June 1991. The small team of sun engineers called Green Team.
- 2) Originally designed for small, embedded systems in electronic appliances like set-top boxes.
- 3) Firstly, it was called "Greentalk" by James Gosling, and file extension was .gt.
- 4) After that, it was called Oak and was developed as a part of the Green project.

# Java Version History

- JDK Alpha and Beta (1995)
- JDK 1.0 (23rd Jan 1996)
- JDK 1.1 (19th Feb 1997)
- J2SE 1.2 (8th Dec 1998)
- J2SE 1.3 (8th May 2000)
- J2SE 1.4 (6th Feb 2002)
- J2SE 5.0 (30th Sep 2004)
- Java SE 6 (11th Dec 2006)
- Java SE 7 (28th July 2011)
- Java SE 8 (18th March 2014)
- Java SE 9 (21st Sep 2017)
- Java SE 10 (20th March 2018)

# JAVA PROGRAM TRANSLATION





# JAVA VIRTUAL MACHINE

- Java virtual machine is the like usual computer which translate high level language into machine language.
- Just like that Java virtual machine also translate Bytecode into machine language.
- JVM are available for many hardware and software Platform.

# WHAT IS OOP

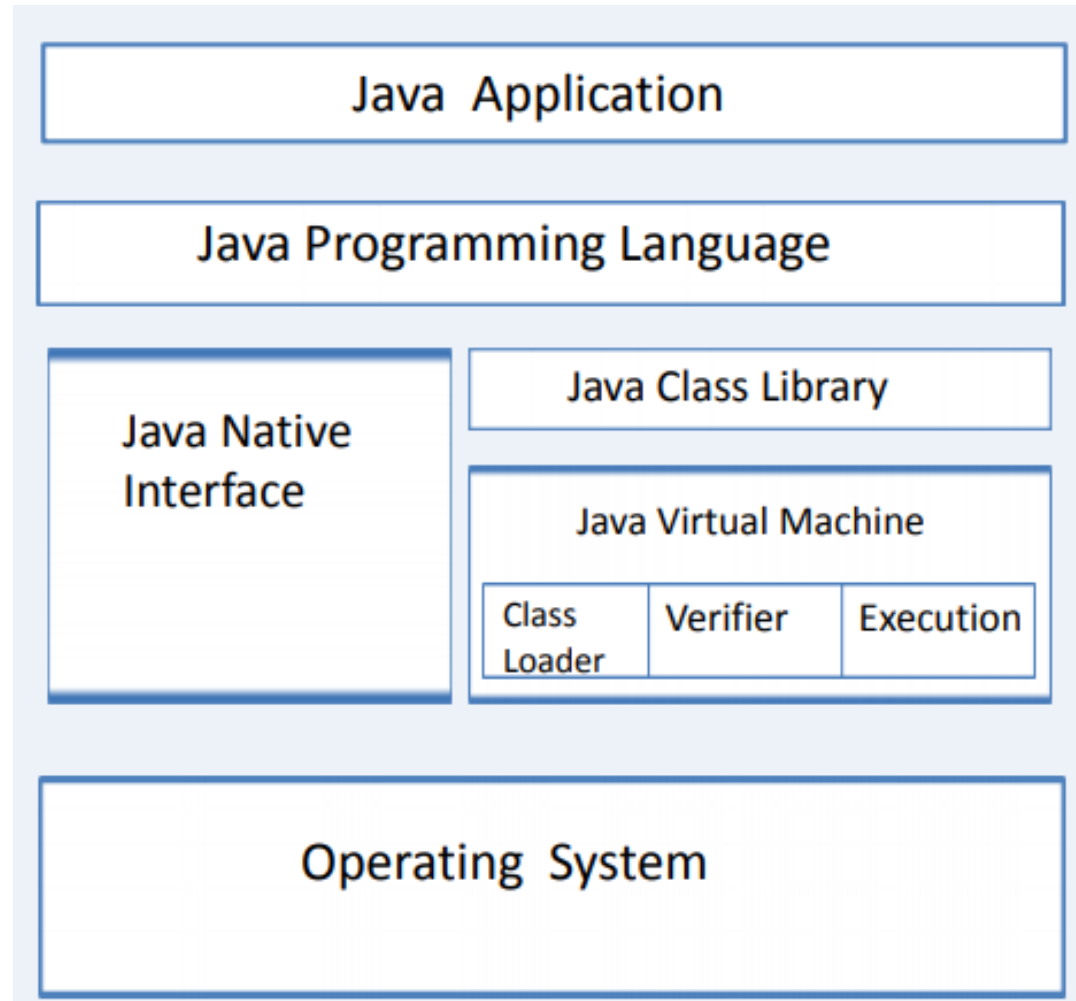
- Object-oriented programming is a method of implementation.
- A language in which everything represent in the form of Object is called Object Oriented
- Programming Language.
- It not only makes the program less complex but also makes the software reuse feasible and possible.
- Java is not truly Object Oriented Programing Language

# CONCEPTS OF OOP

- Object
- Class
- Encapsulation
- Inheritance
- Polymorphism
- Abstraction



# JAVA SYSTEM OVERVIEW



# JAVA PROGRAM-DEVELOPMENT PHASES



Thank You

