



# Java Assignment-1

## Features of Java

# JAVA

Java is a programming language and computing platform first released by Sun Microsystems in 1995. It has evolved from humble beginnings to power a large share of today's digital world, by providing the reliable platform upon which many services and applications are built. New, innovative products and digital services designed for the future continue to rely on Java, as well.

# *Features of JAVA*



## SIMPLE:

- Java is Easy to write and more readable and eye catching.
- Java has a concise, cohesive set of features that makes it easy to learn and use
- Most of the concepts are drew from C++ thus making Java learning simpler

# Java is Object-oriented

- *Java programming is object – oriented programming language.*
- *C++ java provides most of the object oriented features.*
- *Java is pure OPP. Language.*



# 4 Concepts of OOP



Encapsulation



Abstraction



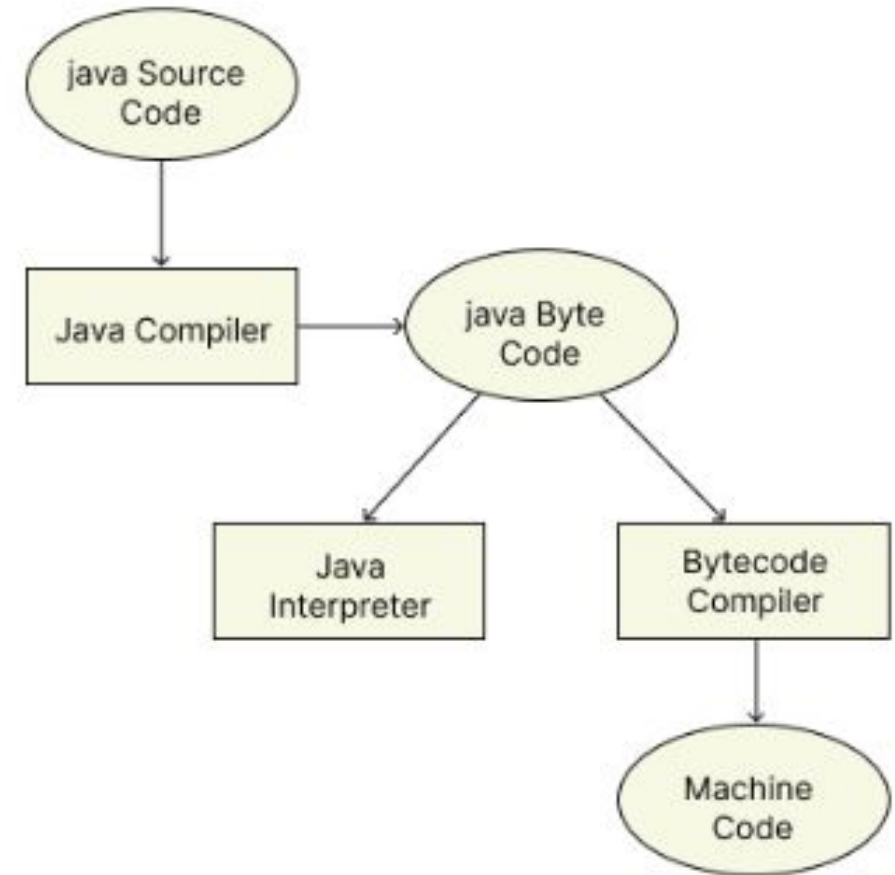
Inheritance



Polymorphism

# PLATFORM - INDEPENDENT

- Java is platform-independent because it uses a "Write Once, Run Anywhere" approach.
- Java source code is compiled into bytecode, which is platform-neutral. This bytecode can be executed on any platform that has a Java Machine (JVM) compatible with that bytecode.



# Java is Secure

- Java program cannot harm other system thus making it secure.
- Java provides a secure means of creating Internet applications.
- Java provides secure way to access web applications.





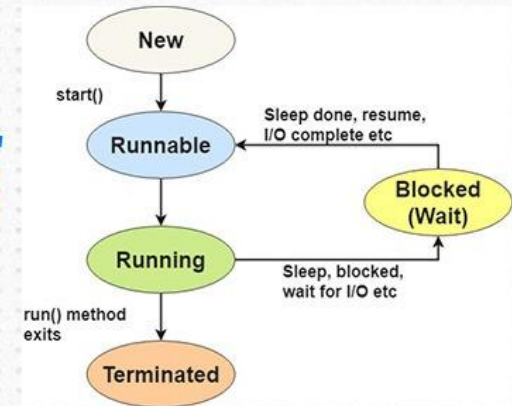
# Java's Performance

- Bytecodes are highly optimized.
- JVM can execute them much faster.

# Java is Multithreaded

- Java provides integrated support for multithreaded programming.

## **Multi Threading in JAVA programming**



# Conclusion:

Objects are created with every Java program it is an object oriented programming language, the garbage collector frees the memory from objects which are not required or which will not be required. In order to check whether an object is required or not its recent references are checked.