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# 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 ?

According to the Sun , 3 billion devices run java.

There are many devices where Java is currently 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.

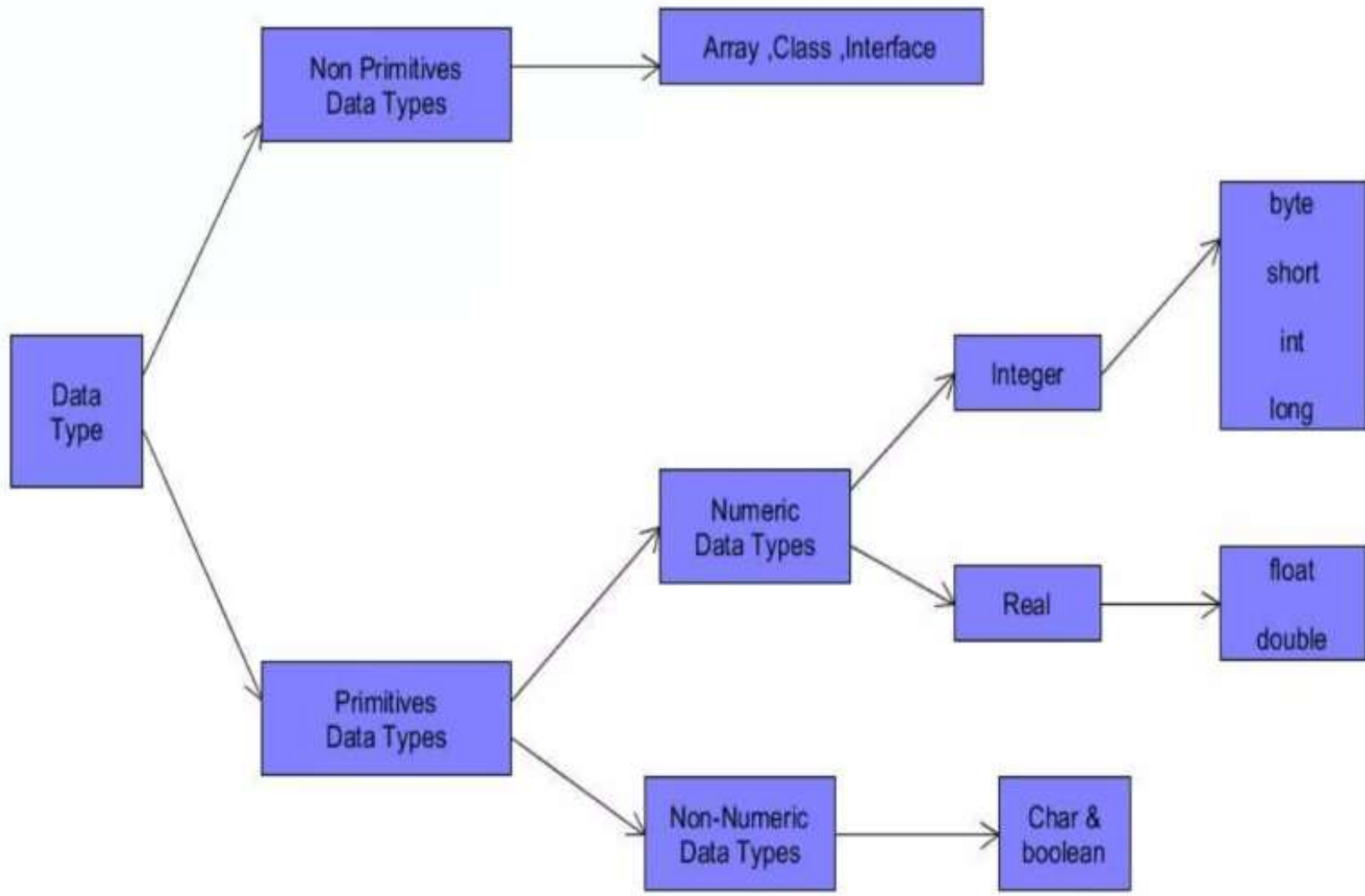
# FEATURES OF JAVA

- 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**

# 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 Plateform.

# DATA TYPES IN JAVA



# GARBAGE COLLECTION

- ❖ Garbage collection is the mechanism that De allocate the memory of an object when it is no longer referenced by a variable.
- ❖ In C++, the memory of an Object is released by use of delete operator.
- ❖ Java virtual machine determines when to free up the memory of an object.

## ADVANTAGES OF JAVA

- ❖ Java is simple language.
- ❖ Java does not support POINTERS.
- ❖ Java is first language in which programs can be executed using web.
- ❖ **Write Once Run Anywhere (WORA).**