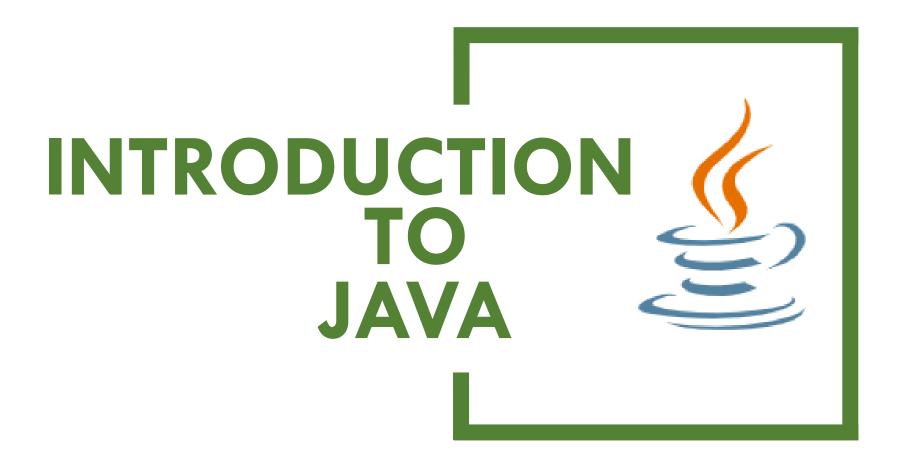
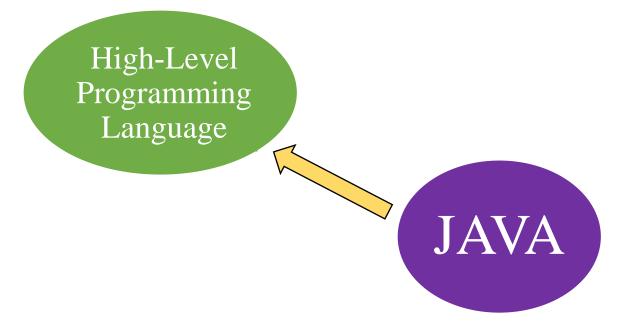
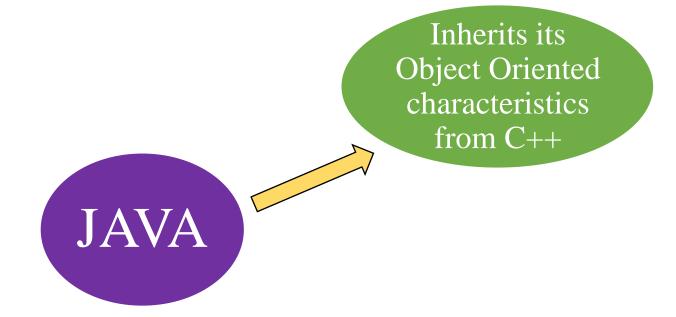


## Sumeet Rathod





High level languages are written in a form that is human-readable, making it programmer friendly and enabling it to more focus on the problem solving. Due to its portable feature, it makes the programs machine-independent.

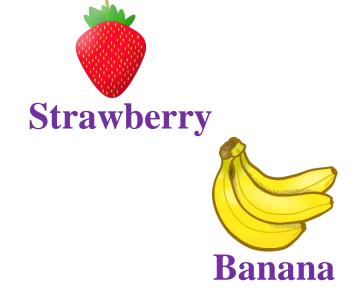


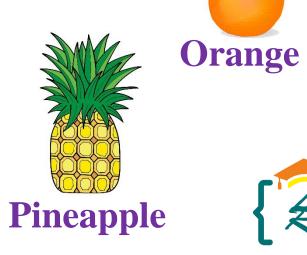




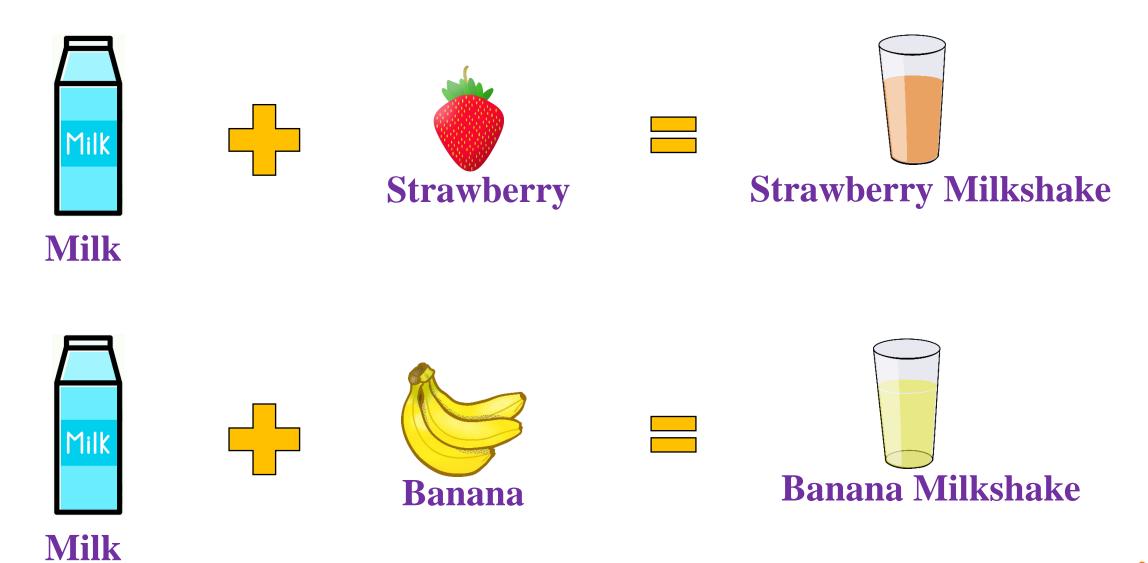




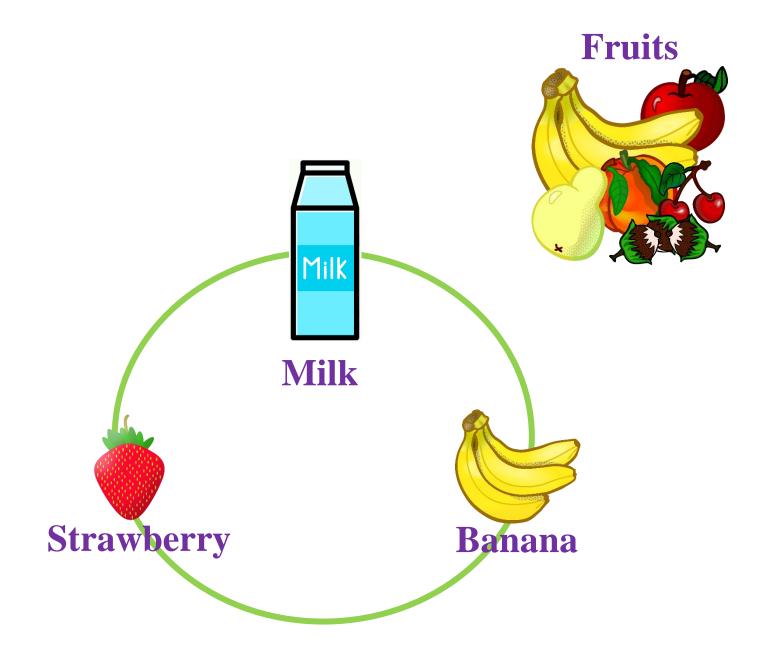










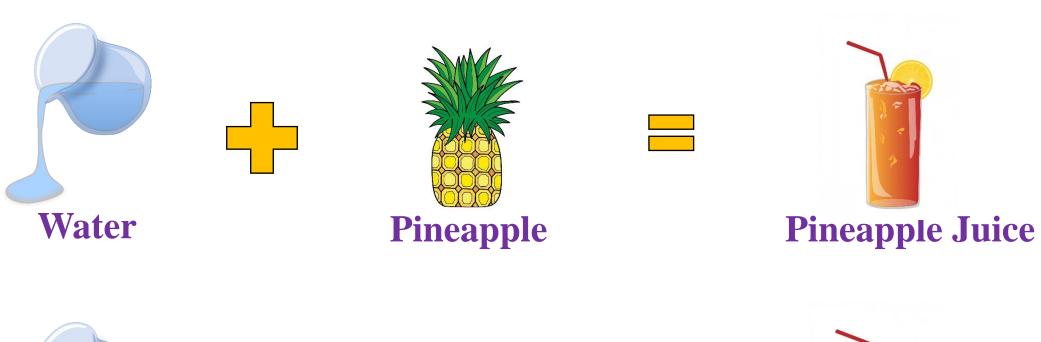




**Pineapple** 









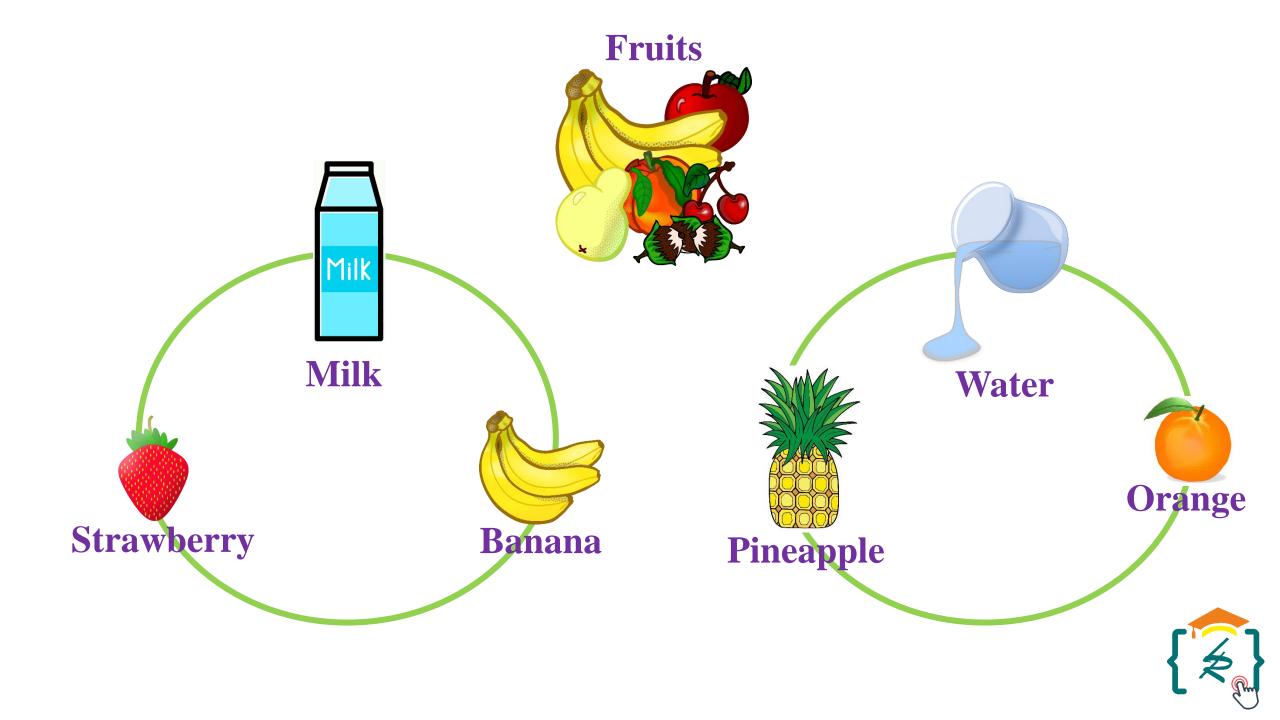


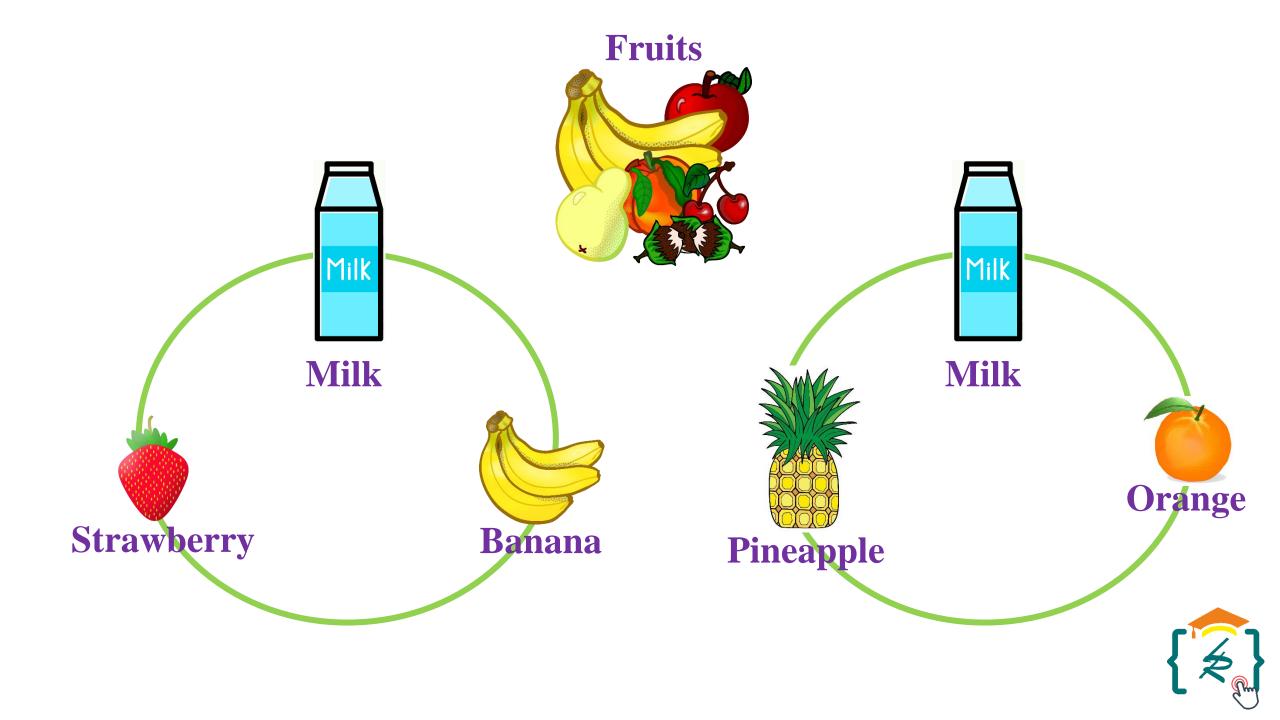


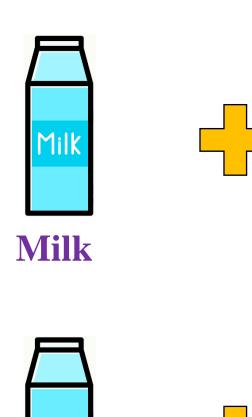


































**PROPERTY** 





Pineapple Milkshake





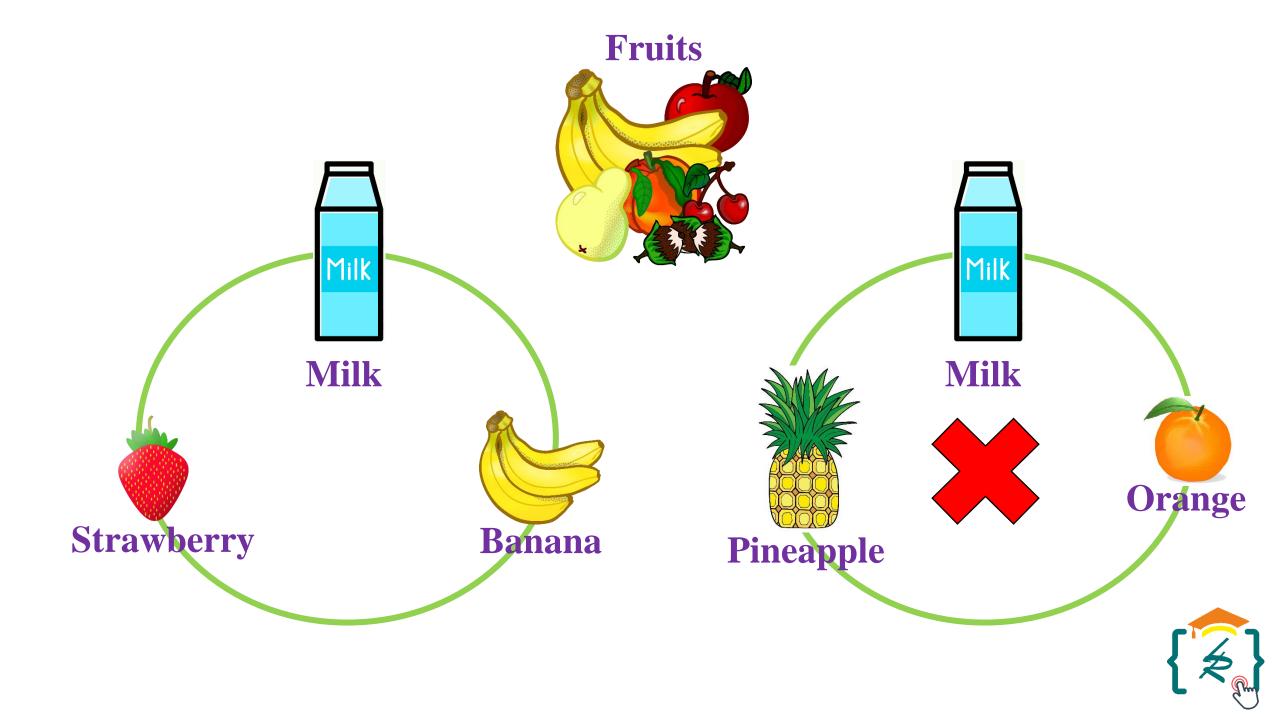


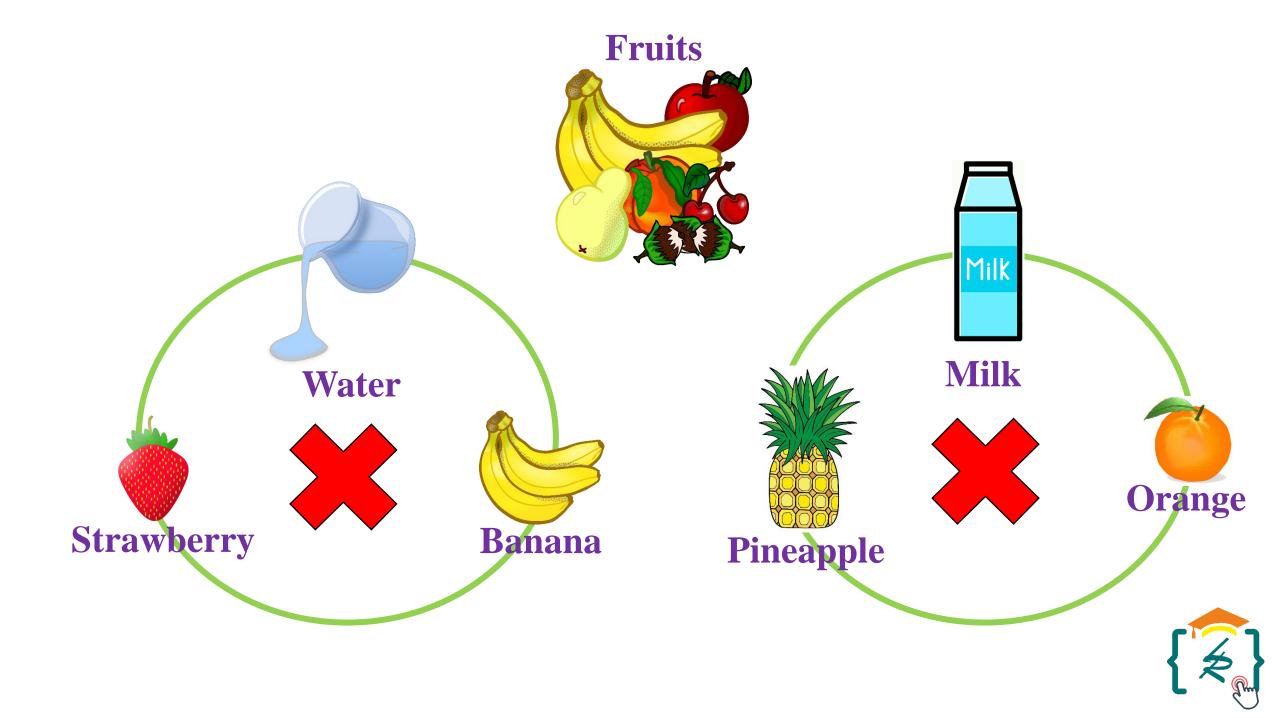




**Orange Milkshake** 











**OBJECTS** 









Object Oriented



**FUNCTION** 









"class" is a template that narrates the behavior of the supported object.

```
Object
Oriented
```

```
class Demo1
     Function1()
          obj1;
```



"Function" is a block of code that is called by a name, associated with an object.

> Object Oriented

```
class Demo1
     Function1()
           obj1;
```



```
class Demo1
                               Function1()
Object
Oriented
                    "Object" have identity, state and behavior.
```

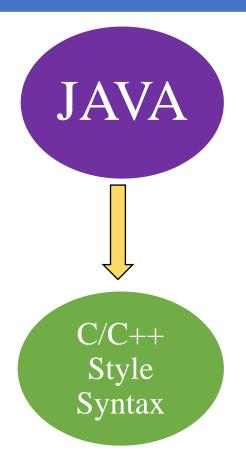


Object Oriented

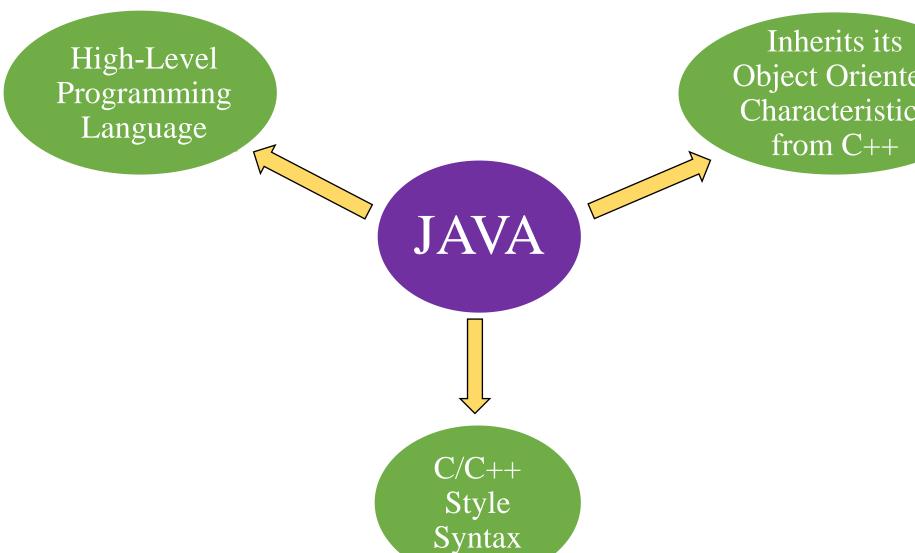
```
class Demo1
     Function1()
          obj1;
```

```
class Demo2
     Function2()
          obj2;
```

Java was designed based on C/C++ style syntax, as many programmers were familiar to it.

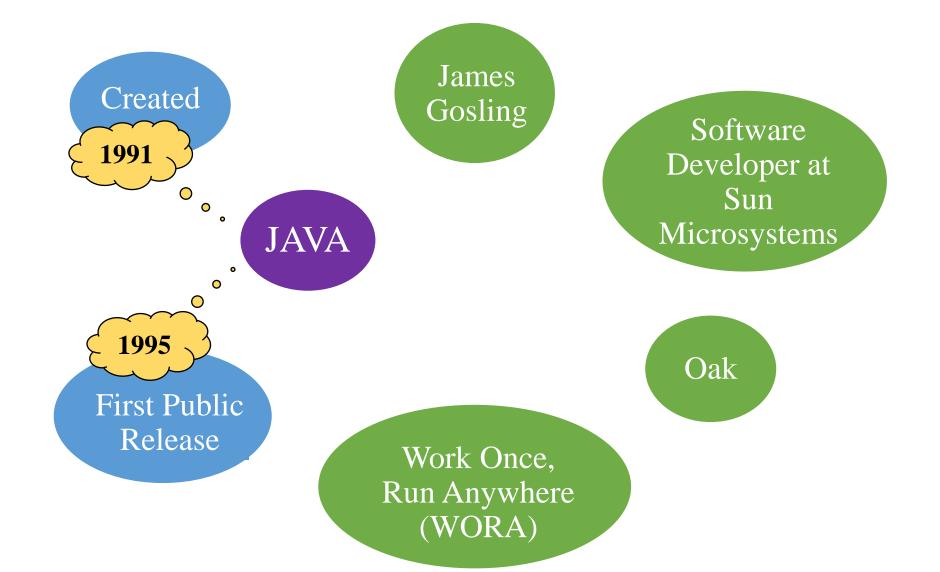




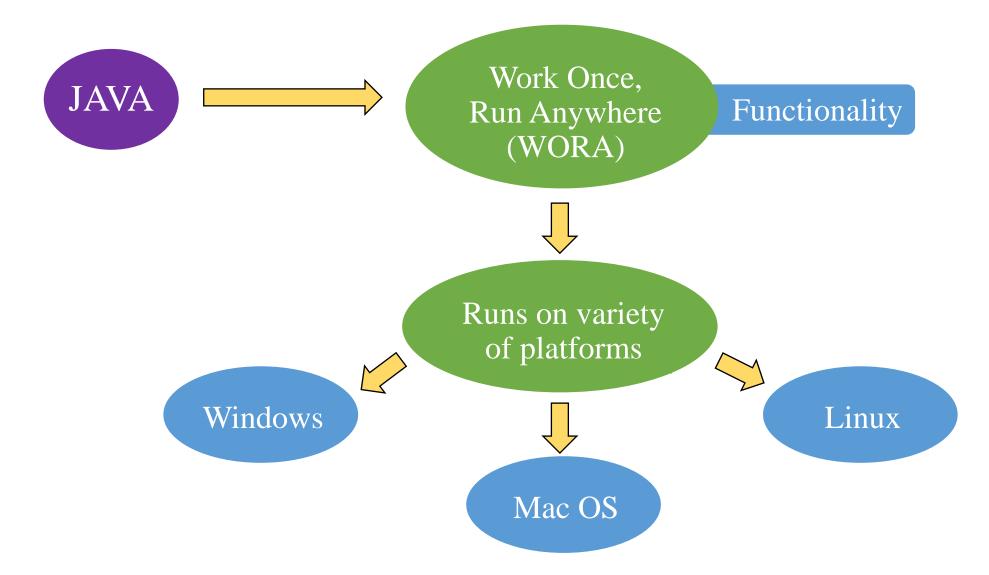


Object Oriented Characteristics

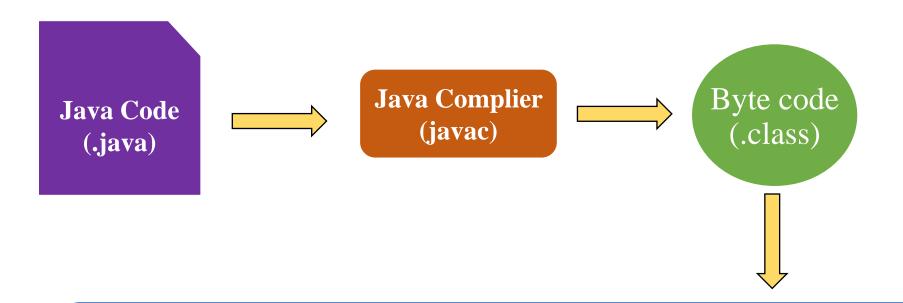






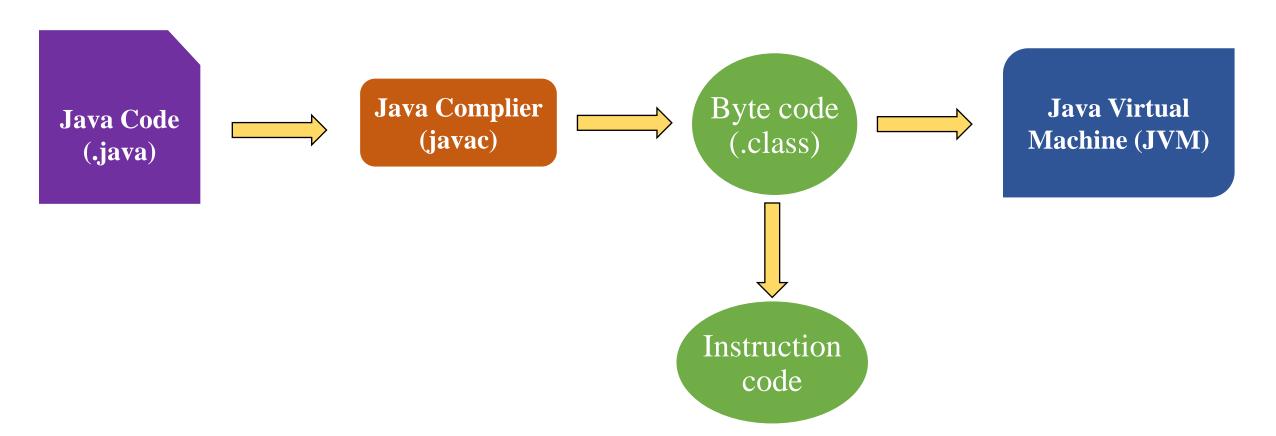




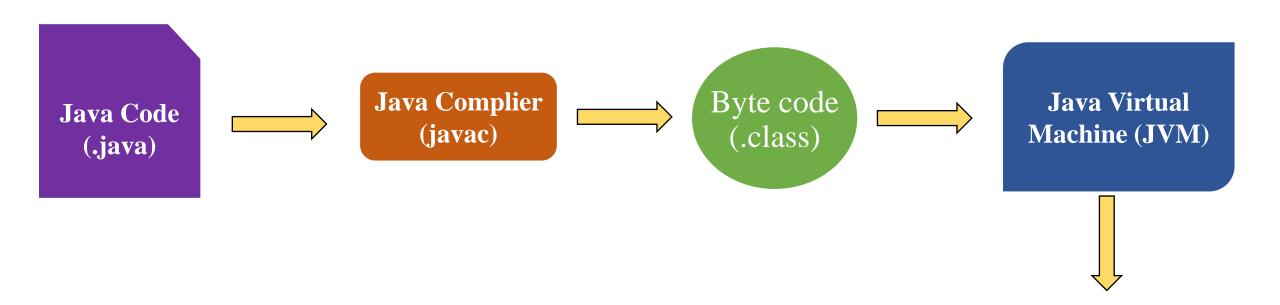


Java byte code is the instruction code that is processed by a Java Virtual Machine (JVM).

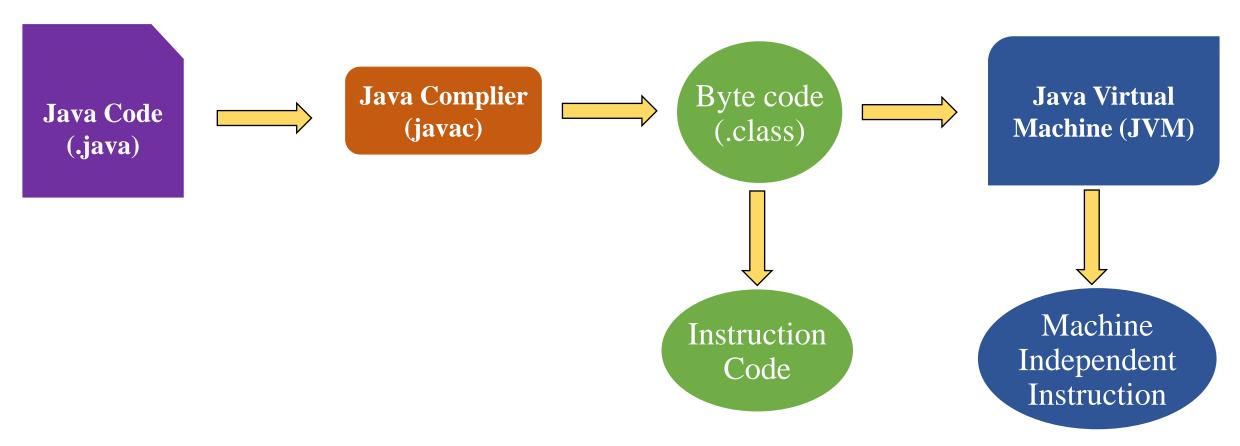




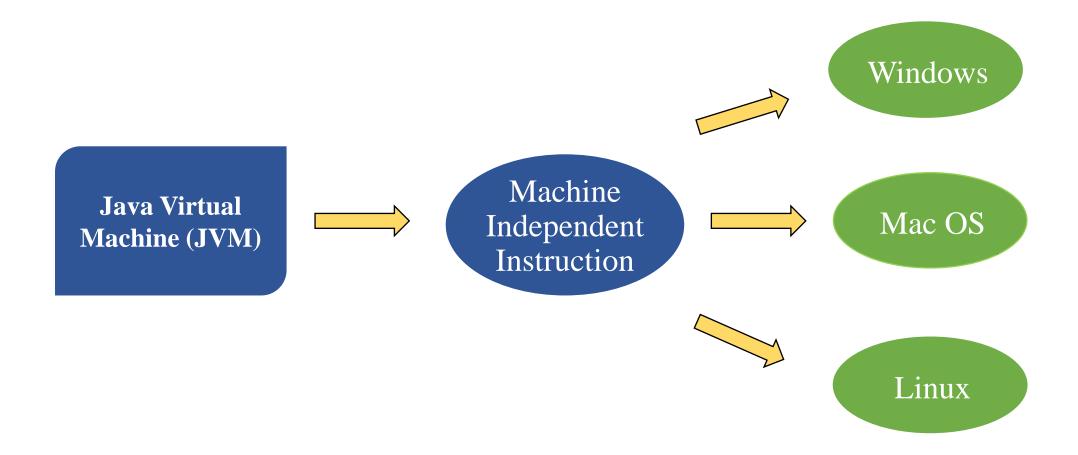




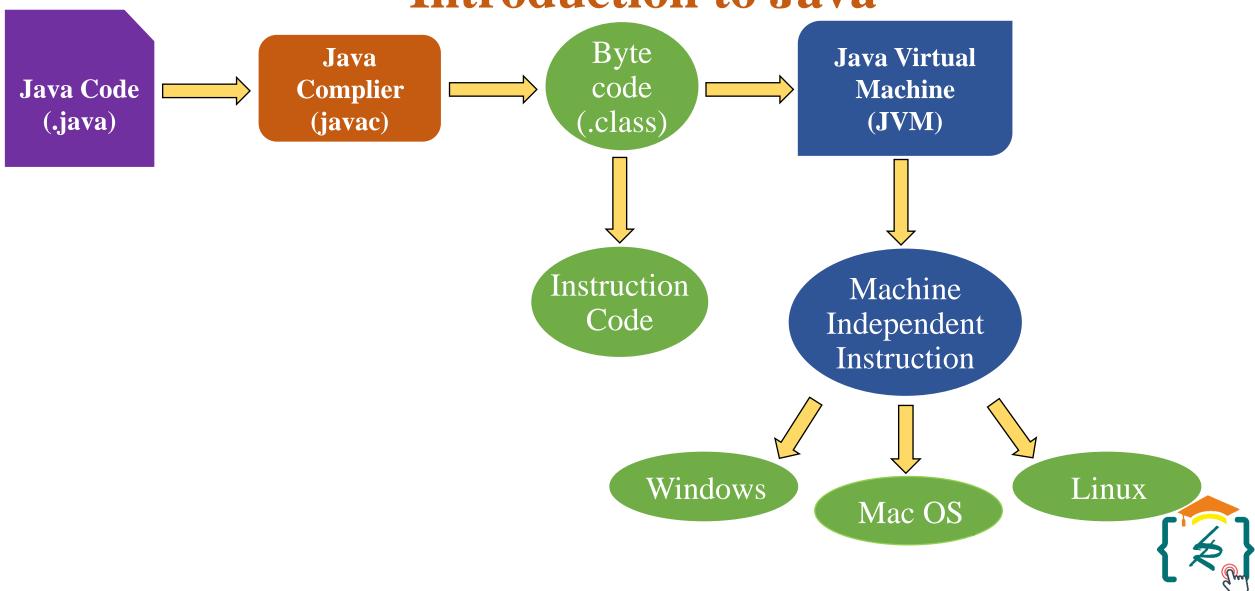
Java Virtual Machine (JVM) converts each instruction code into a machine independent instruction, which can run on any operating system.

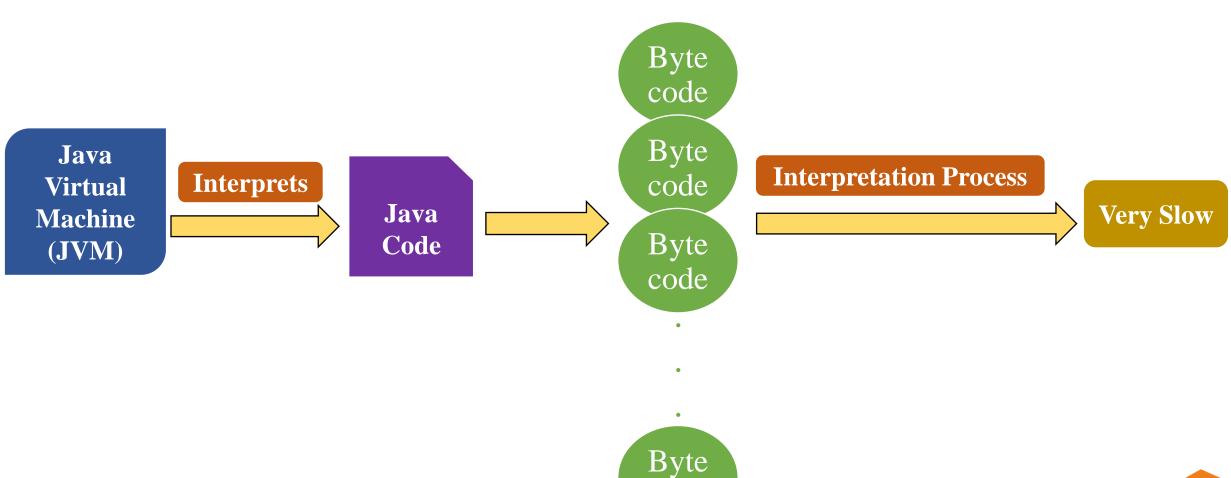






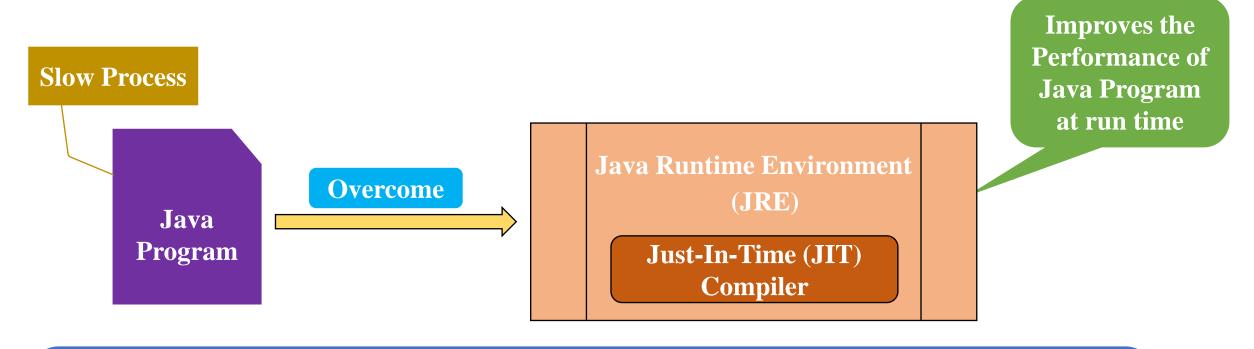




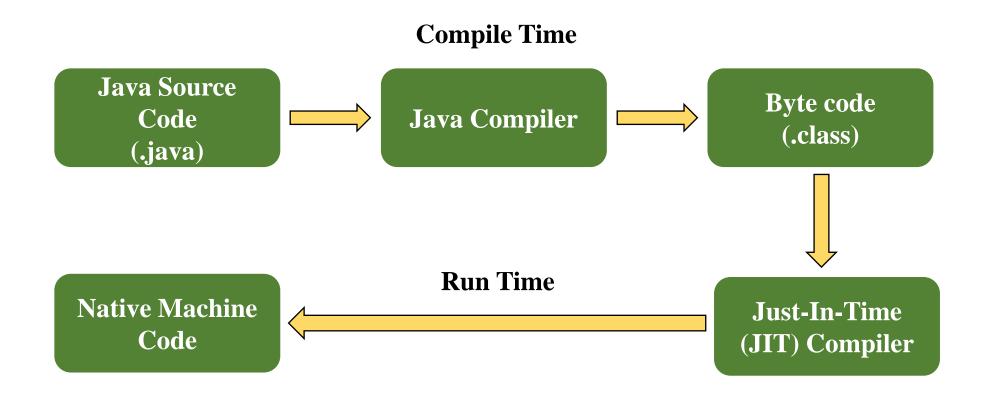


code



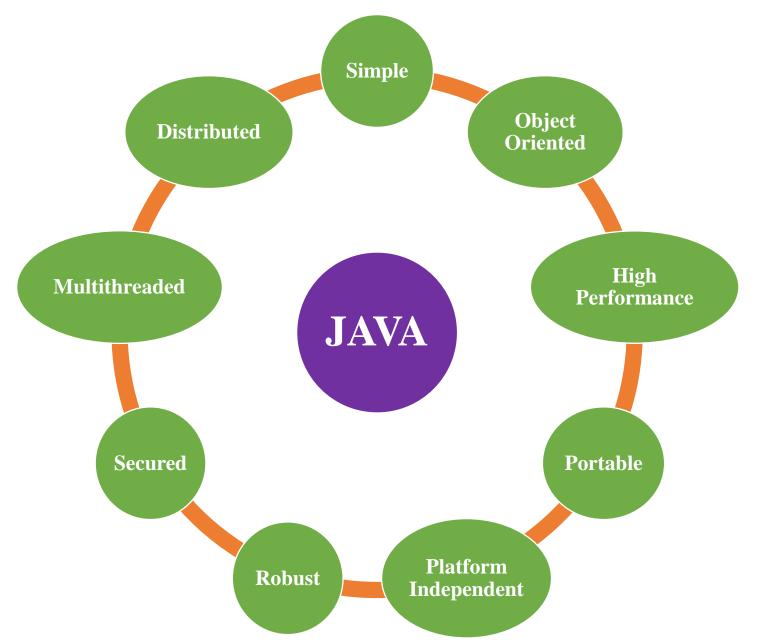


To overcome the slow process, Java introduced Just-In-Time (JIT) compiler, which is an integral component of the Java Runtime Environment (JRE) JIT compiler is responsible for improving the performance of Java applications at run time.



**Compilation process of JRE** 







Simple

Java is very easy to learn programming language, as its syntax is very simple and clear in understanding.

**Object Oriented** 

Java is an object-oriented programming language, were everything is an object, which has some data and behaviour.

High Performance Java is faster as its code is compiled into byte code which is optimized by the Java compiler for Java Virtual Machine (JVM) to execute its applications faster with the help of Just-In-Time (JIT) compiler.

**Portable** 

Java is portable as it provides the Java byte code to execute on any platform without any implementation.

Platform Independent

Java code is compiled into byte code format, which does not bound it to any specific operating system.

Robust

With features like strong memory management, automatic garbage collection and mechanism like exception handling makes Java a robust language.



Secured

Java's secure features allow us to develop virus-free systems, as Java program runs in Java Runtime Environment (JRE) making it is more secure.

Multithreaded

Multithreading feature of Java makes it possible to write program that can perform many tasks simultaneously without occupying memory for each thread, instead it shares a common memory area, resulting in highly interactive and responsive applications.

**Distributed** 

Java is a distributed language as it can create applications that can run over network, with the help of TCP/IP protocols used for communication.



### Any Questions...???













# Thank You

