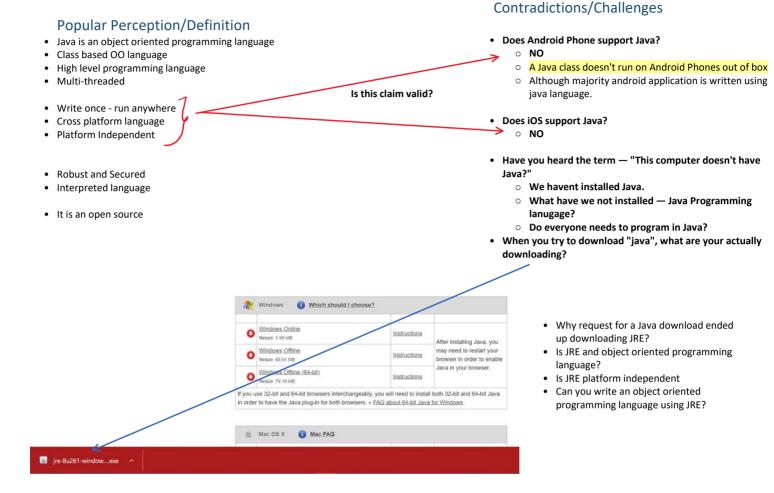
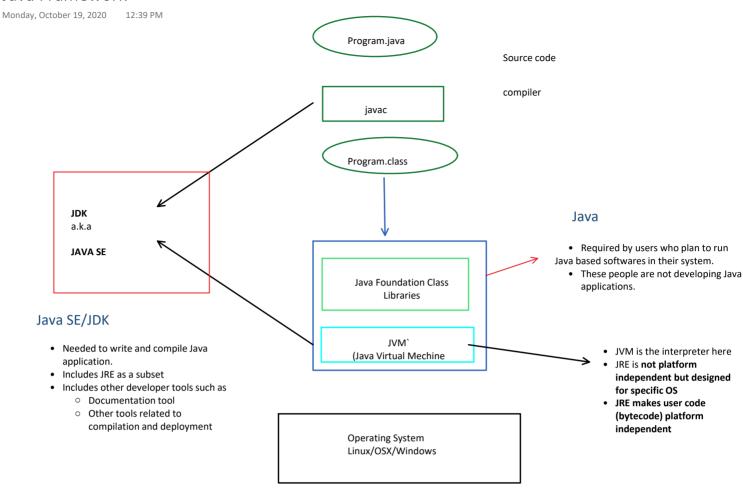
# What is Java? (Popular Perception)

Monday, October 19, 2020 11:36 AM



#### Since the release of Android Studio 3.0 in October 2017, Kotlin is included as an alternative to the standard Java compiler. The Android Kotlin compiler lets the user In the world of computation Java refers to two related but distinct terms Java is a Programming language Java is an execution Platoform/Enivironment Different language choose between targeting Java 6 or Java 8 compatible bytecode. Kotlin has been Google's preferred language for Android app development since 7 May 2019. Kotlin Object oriented Platform independent Multi-threads Program This is a different programming language which produces a byte code just like Java compiler do. Javac (java compiler) Kotlin compiler Although it is NOT written in Java, It will still work on Java Platform Platform independent Program.class Android and IOS doesn't support Java platform and they are not considered Dalvik compiler Java systems. Byte code Write once run JVM For OSX Java (JVM for windows) Anywhere\* \* where JVM is present Program.apk Anroid doesn't have JVM Can't execute A .class file have JVM Can't execute A .class file Dalvik Virtual Machine OSX (Macbook) Android OS

# Java Framework



### Java Environments based on Use cases

Monday, October 19, 2020 12:49 PM

- Java desktop application user

   Needs to install JRE

   The product will include additional library

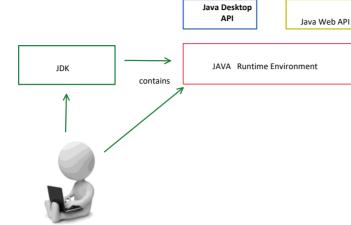


Server needs to install JRE+ Web Runtime (like web server)



Contains JVM

Foundation class libraries

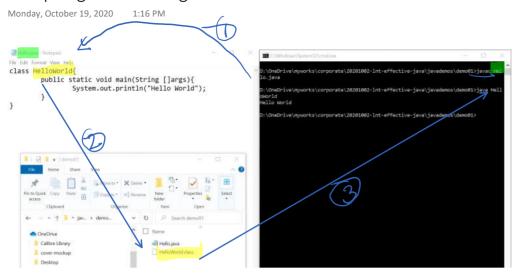


Just needs standard browser.

Doesn't require to install anything related to java

- NO JRE
- NO other software

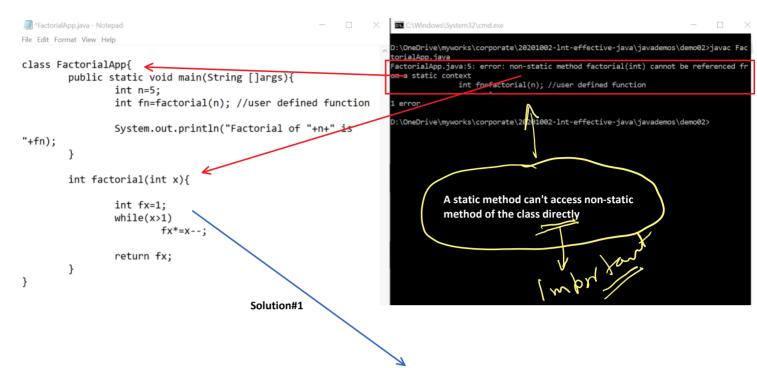
# Compiling and Running Java code



- You compile a source file
   javac Hello.java
  - 1. The byte code name is same as that of Class present in source code and not same as the .java file name
  - 2. You run the byte code using java command
- c:> java HelloWorld

## Static context

Monday, October 19, 2020 1:33 PM



## Solution

- There are multiple way to solve this problem
- · We will choose different solutions depending on the context

#### Solution 1

• Make factorial function static