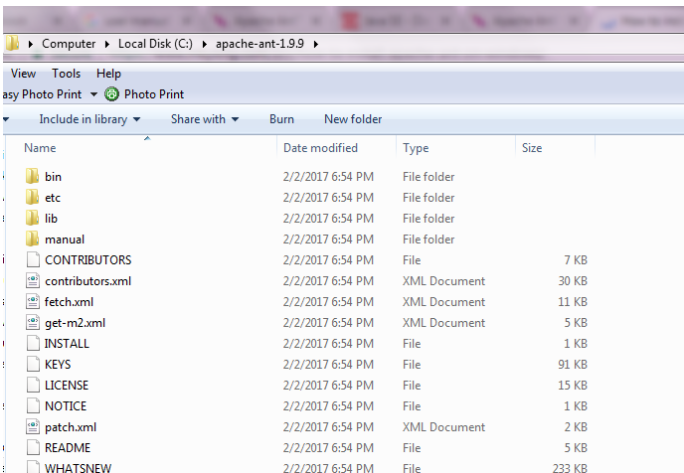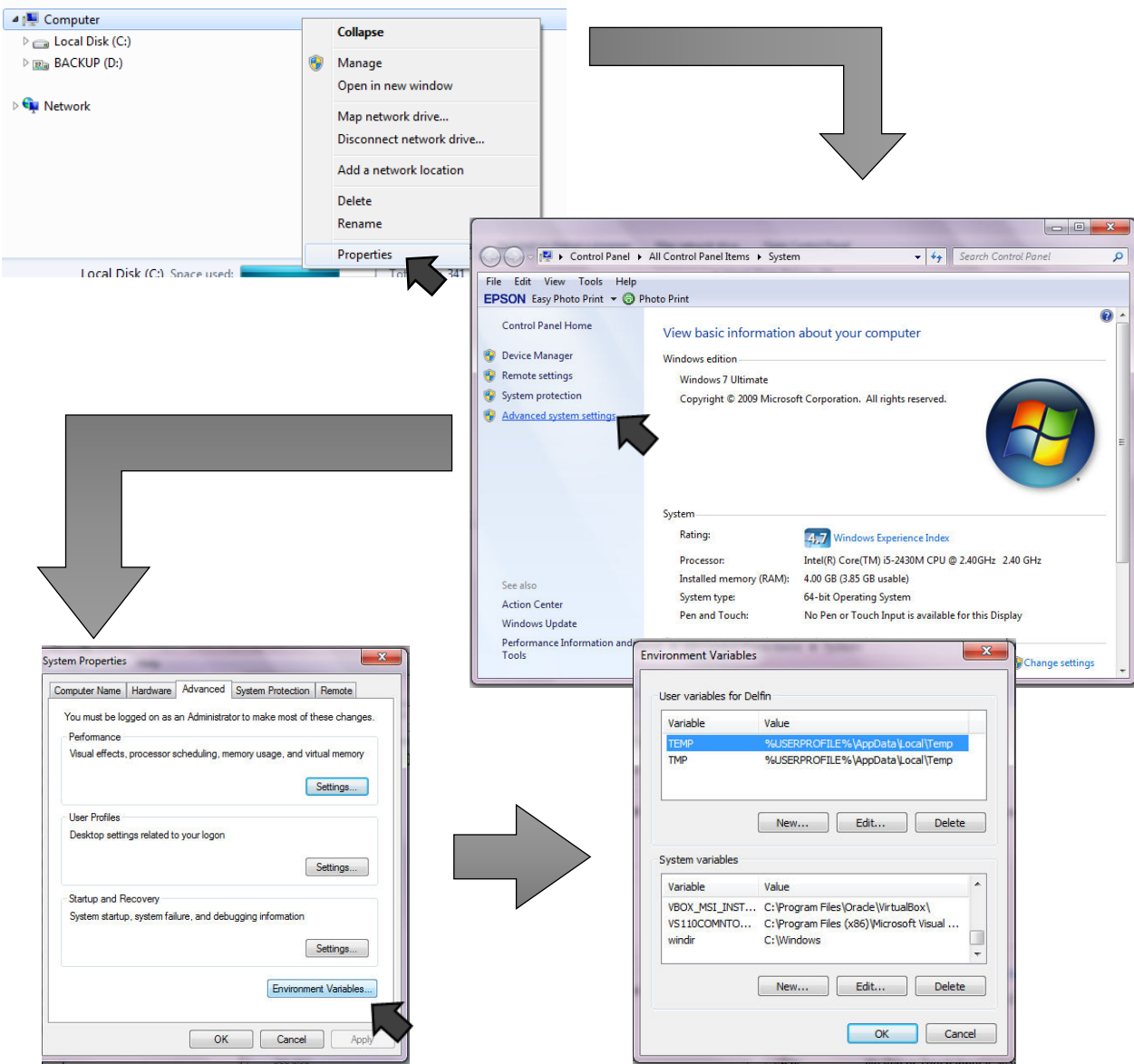# ANT INSTALLATION MANUAL

REQUIREMENTS:
- Apache ant 1.9.4 (ant.apache.org)
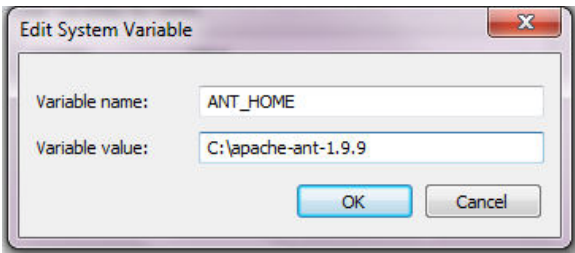- JDK 1.7 (www.oracle.com)

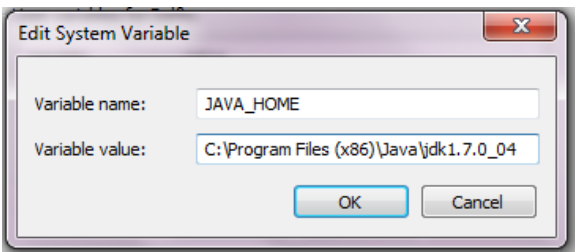## 1. Unzip Apache Ant Binary Zip file to a directory

2. Set Environment Variables

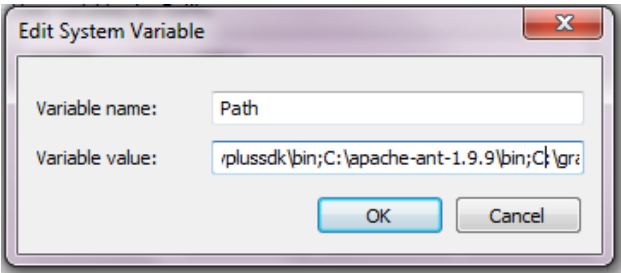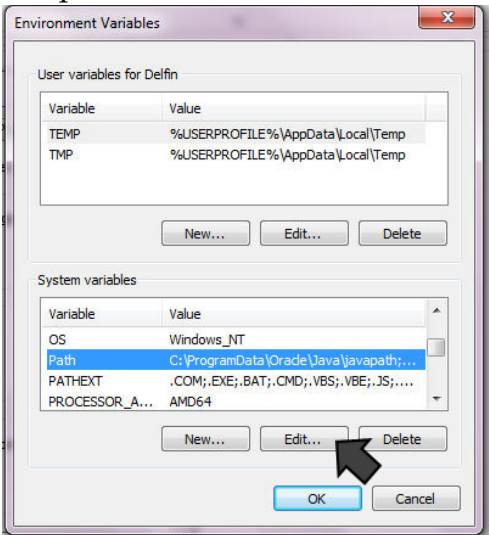-Add a new Variable in Systems Variables:

-Set variable name to ANT_HOME
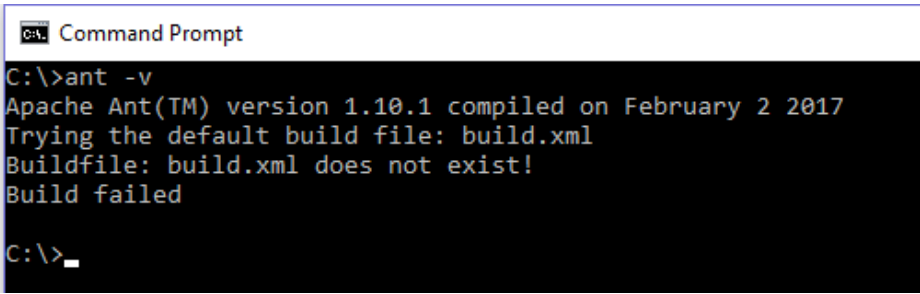to the directory you unzipped to

-Set variable name to JAVA_HOME
to your Java environment

3. Update the Path Variable

-add the Apache Ant bin directory
to your path

4. To verify installation, go to the command line in any directory and input "ant -v".

```
C:\>ant -v
Apache Ant(TM) version 1.10.1 compiled on February 2 2017
Trying the default build file: build.xml
Buildfile: build.xml does not exist!
Build failed

C:\>
```
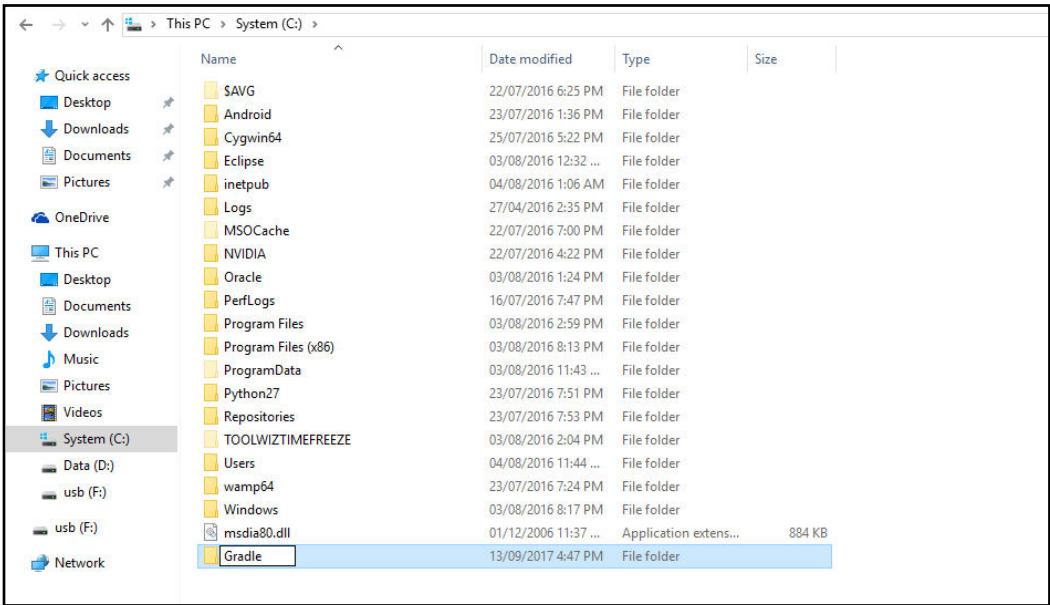
-note that the build file doesn't exist
because you will create the build file manually
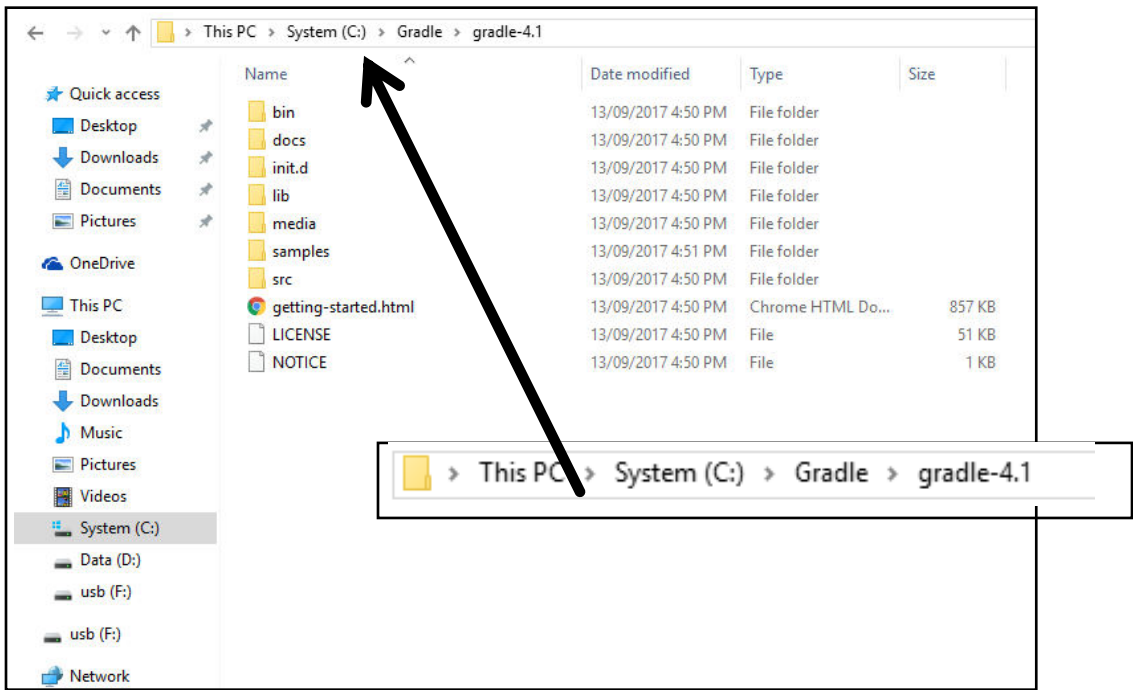
GRADLE INSTALLATION MANUAL

Windows installation for Gradle

1. Unpack Gradle
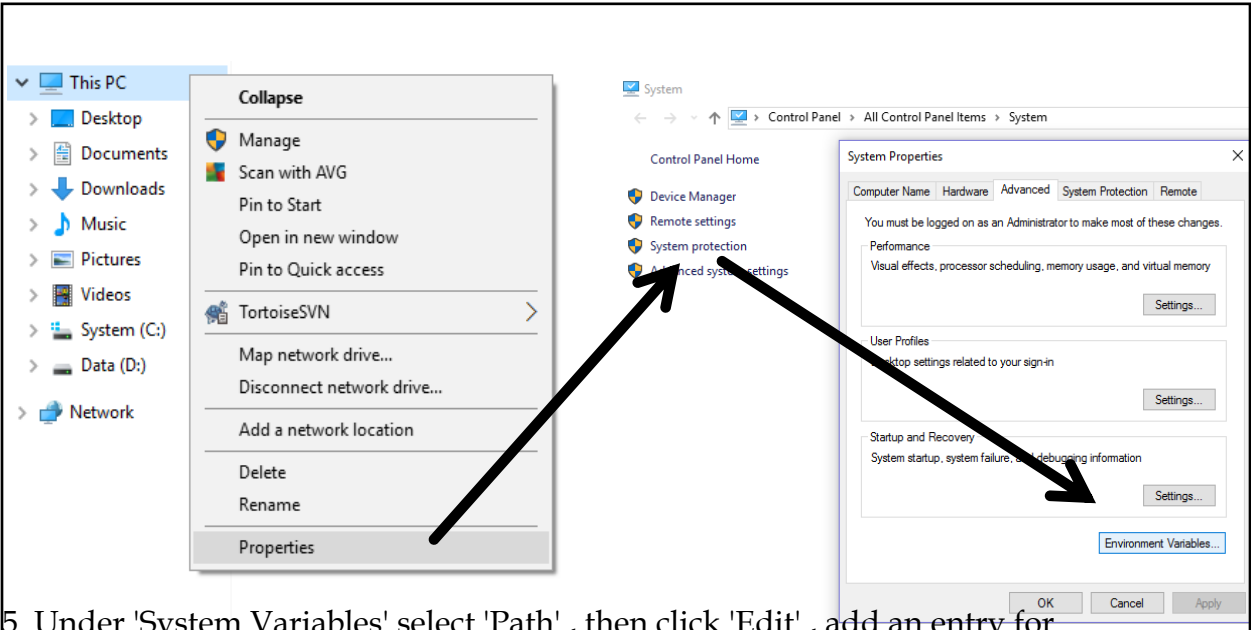
2. Create a new folder in C: named Gradle
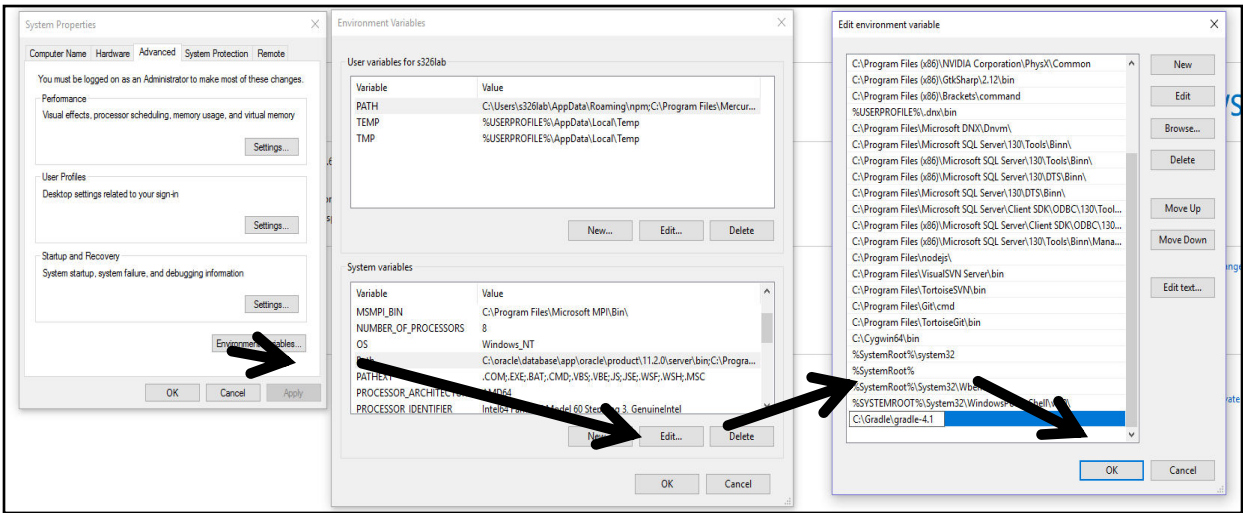
   "C:\Gradle"
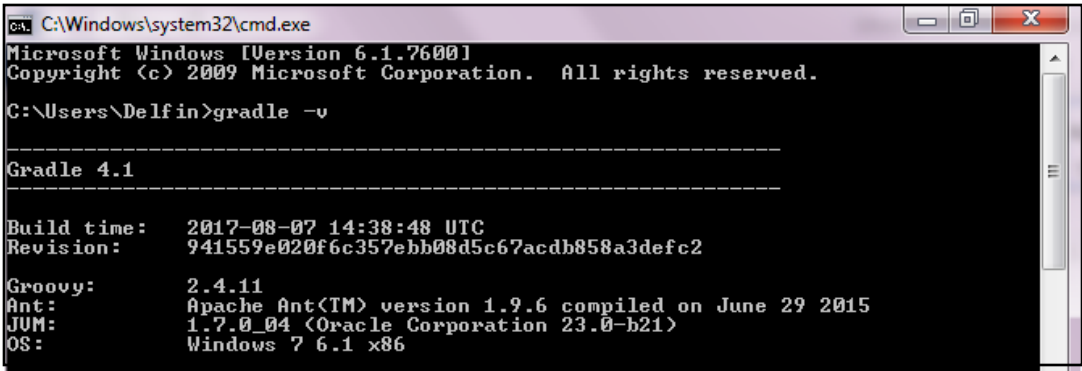

3. Place gradle-4.1 to Gradle

4. Right-click 'This PC', then 'Properties->Advanced System Settings->

Environmental Variables

5. Under 'System Variables' select 'Path' , then click 'Edit' , add an entry for

"C:\Gradle\gradle-4.1\bin". Click OK to save.

6. To verify installation, run command line then input "gradle -v"

MAC Installation for Gradle

1. Unzip the gradle into the file of your choosing

2. Configure your 'PATH'environment variable to inlcude the 'bin' directory of

the unzipped distribution, e.g:

$ export PATH-$PATH:/opt/gradle/gradle-4.1/bin

3. To verify, open command line the input'gradle -v'
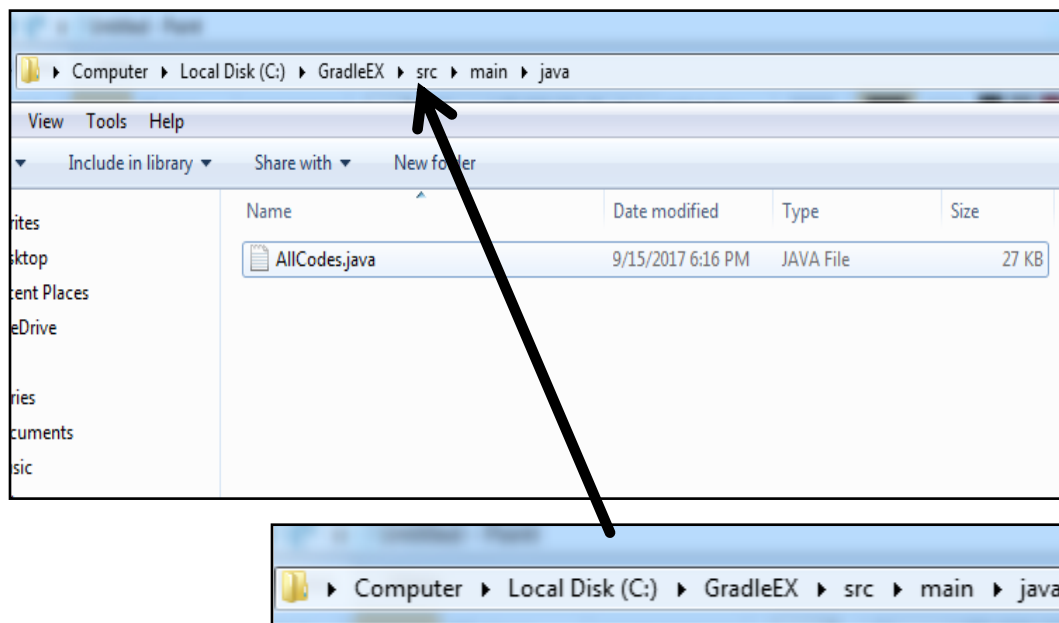
SETTING UP GRADLE

1. Create a base folder

    Example: C:\GradleEX

2. Create a source folder where you can put your java file

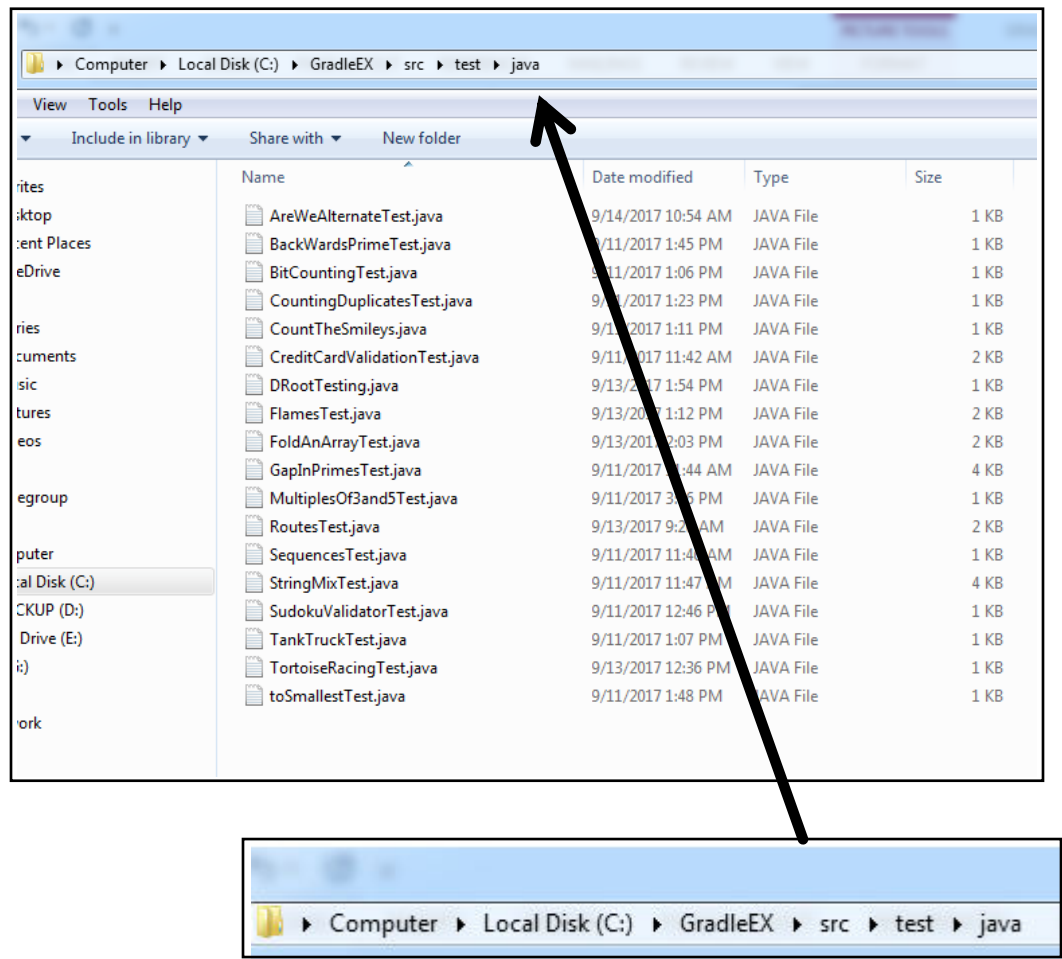   Example: C:\GradleEX\src\main\java

3. Place the java file in the java folder located in C:\GradleEX\src\main\java

4. Create a test folder in the source folder where you can put your files for unit testing
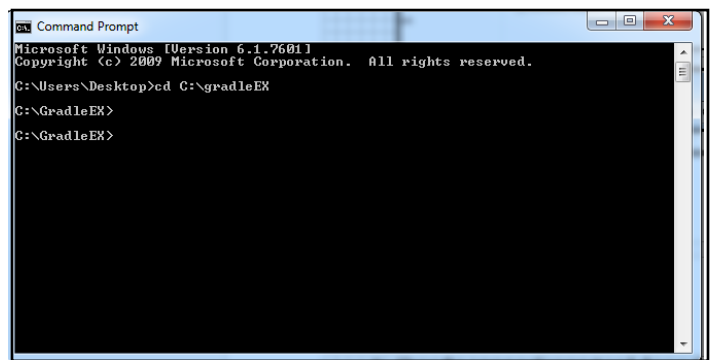
    Example: C:\GradleEX\src\test\java

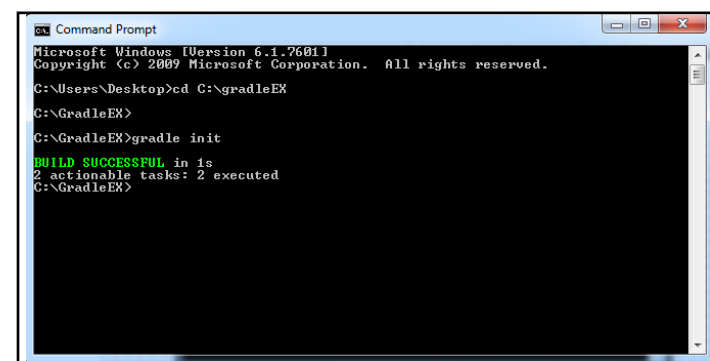5. Put the unit test files where the test folder is located

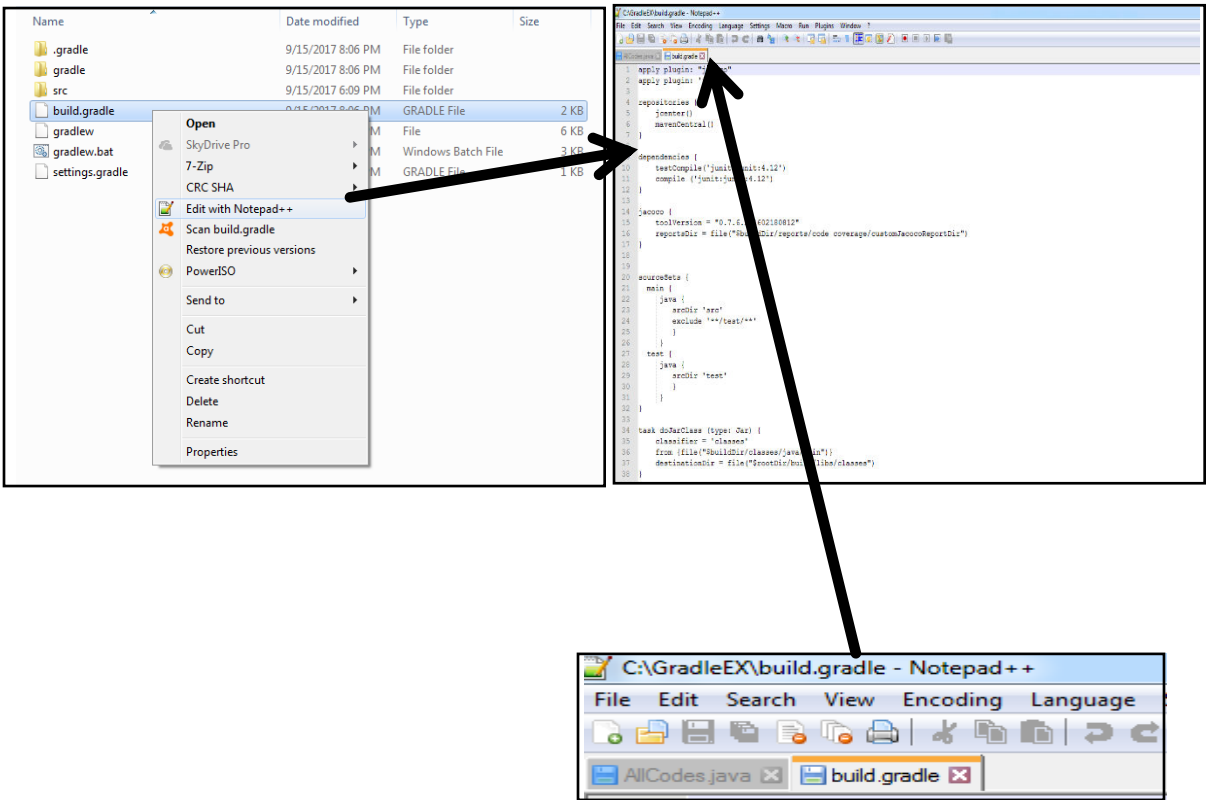6. Open the command prompt and change the directory where the base folder is located

   Example: cd C:\GradleEx

7. Type "gradle init" in the command prompt to initialize the gradle.

8. Go back to the base folder and open the "build.gradle" with any text editors. This is where you're going to place the scripts on compiling, creating javadoc, creating jar file, unit testing, and coverage test. (You don't have to write the script anymore for we already made it.)
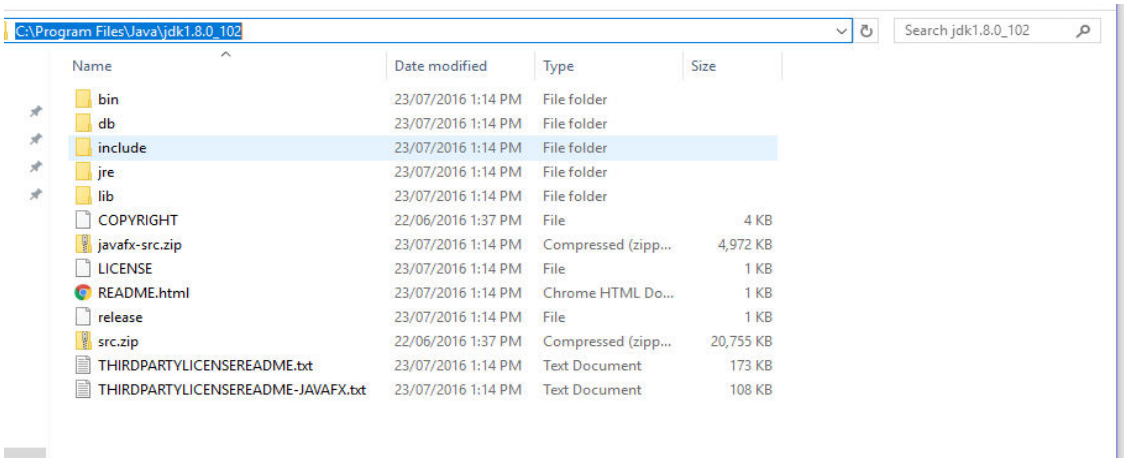
INSTALLATION MANUAL FOR MAVEN
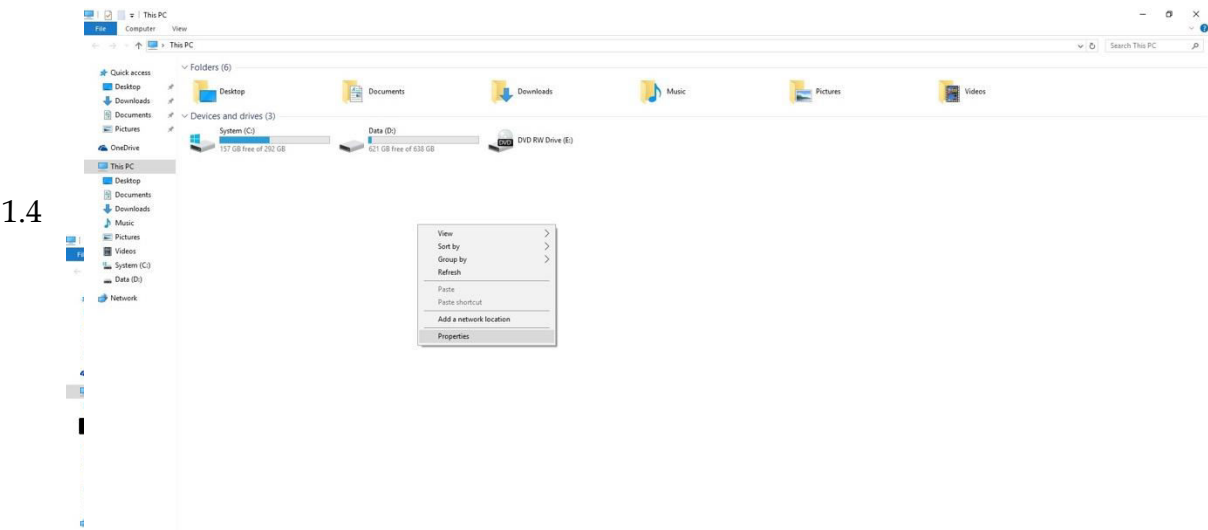
Installation and Setup

1. Make sure you are connected to the internet.

2. Be certain that you have installed the latest JDK else, download it here: http://www.oracle.com/technetwork/java/javase/downloads/index.html

3. Download the latest version of maven here: http://www-eu.apache.org/dist/maven/maven-3/3.5.0/binaries/apache-maven-3.5.0-bin.zip

-

A. Setting up Java Environment Variables

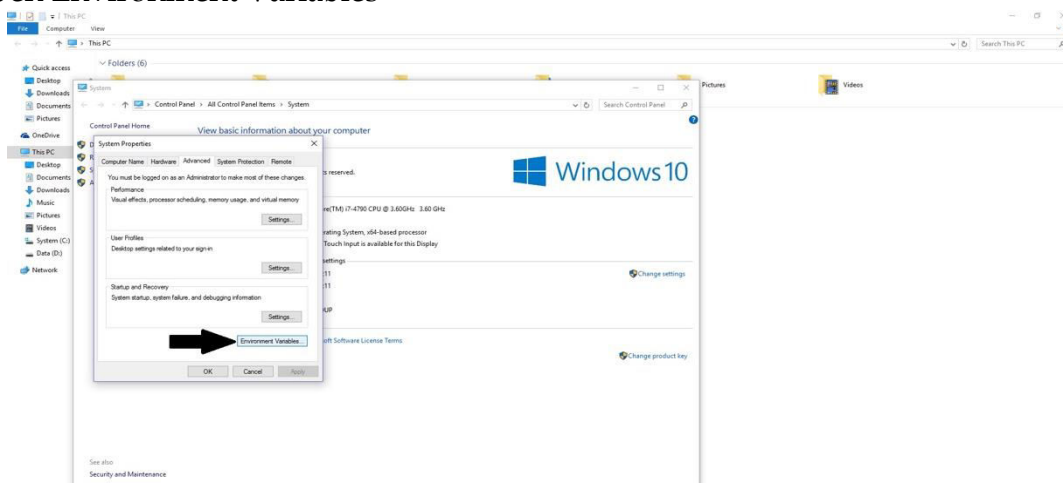1.2 Locate your java JDK (e.g. C:\Program Files\Java\jdk1.8.0_102) and copy its directory

1.3 Go to my computer; check the system properties by doing a right click and select properties

1.4

Open Advanced system settings
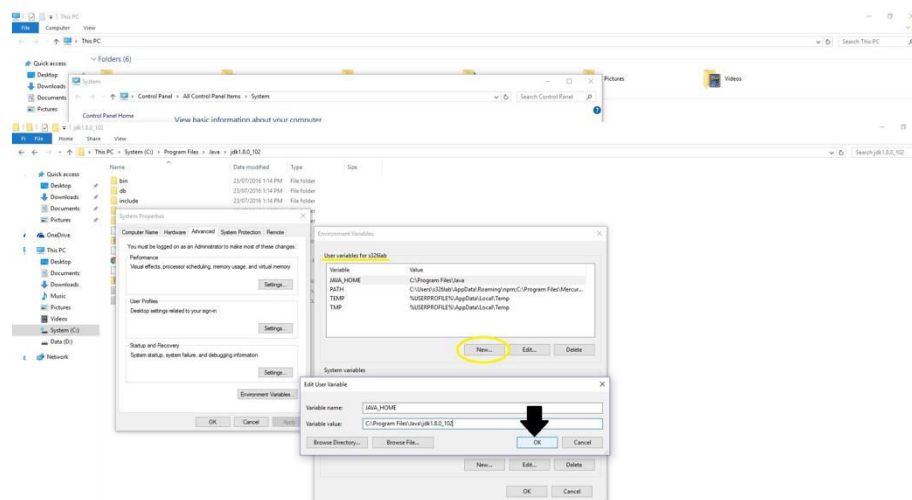
1.5 Open Environment Variables

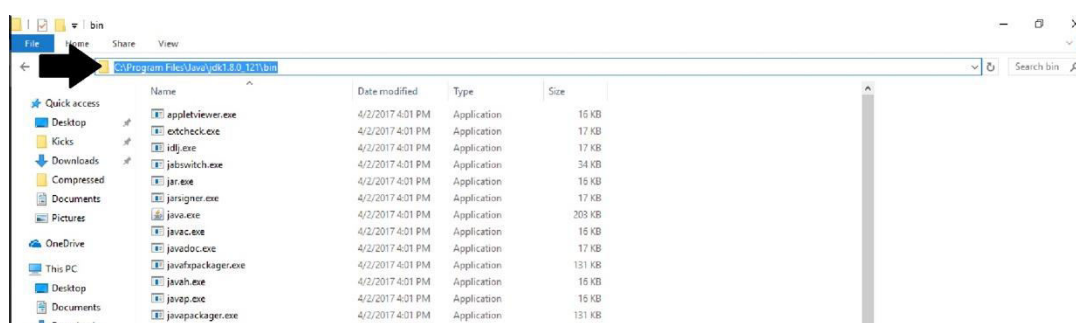1.6 Go to User Variables, click New...

1.7 For variable name, put JAVA_HOME

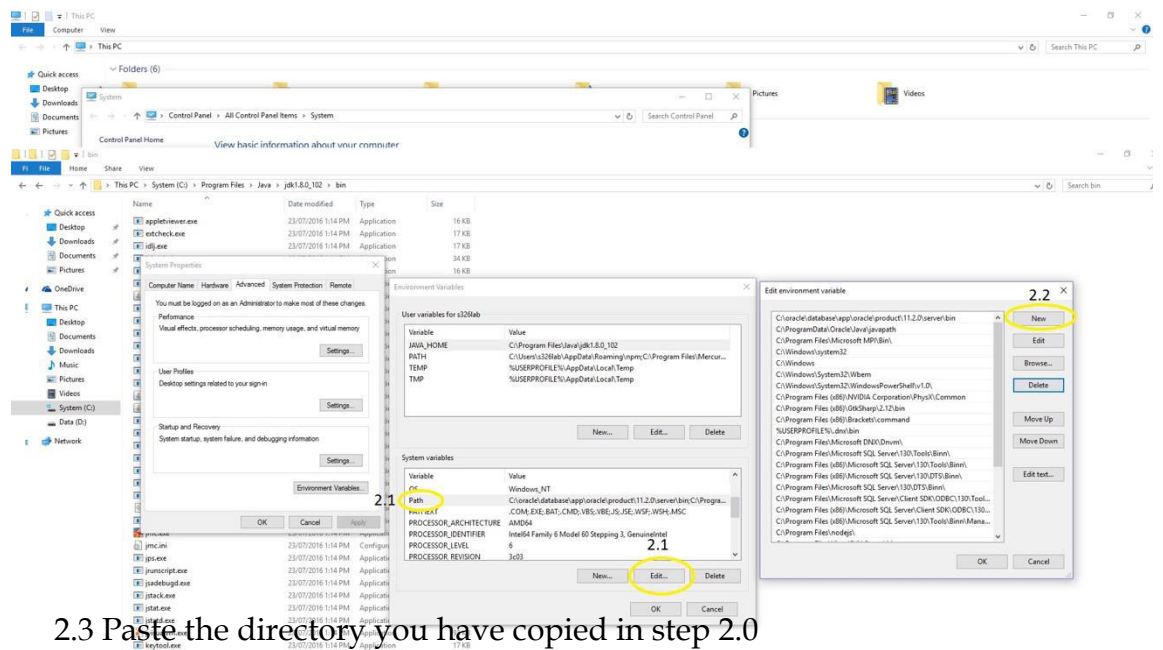1.8 For variable value, paste the directory you have copied in step 1

1.9 Click OK

2.0 Locate your java JDK bin folder (e.g. C:\Program Files\Java\jdk1.8.0_102\bin) and copy its directory

2.1 Go to System Variables locate "Path" click Edit

2.2 Click New

2.3 Paste the directory you have copied in step 2.0
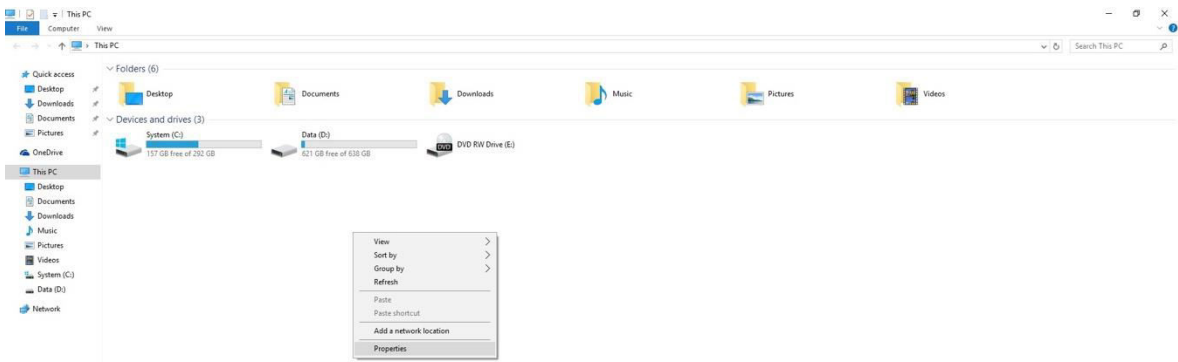
2.4 Click OK

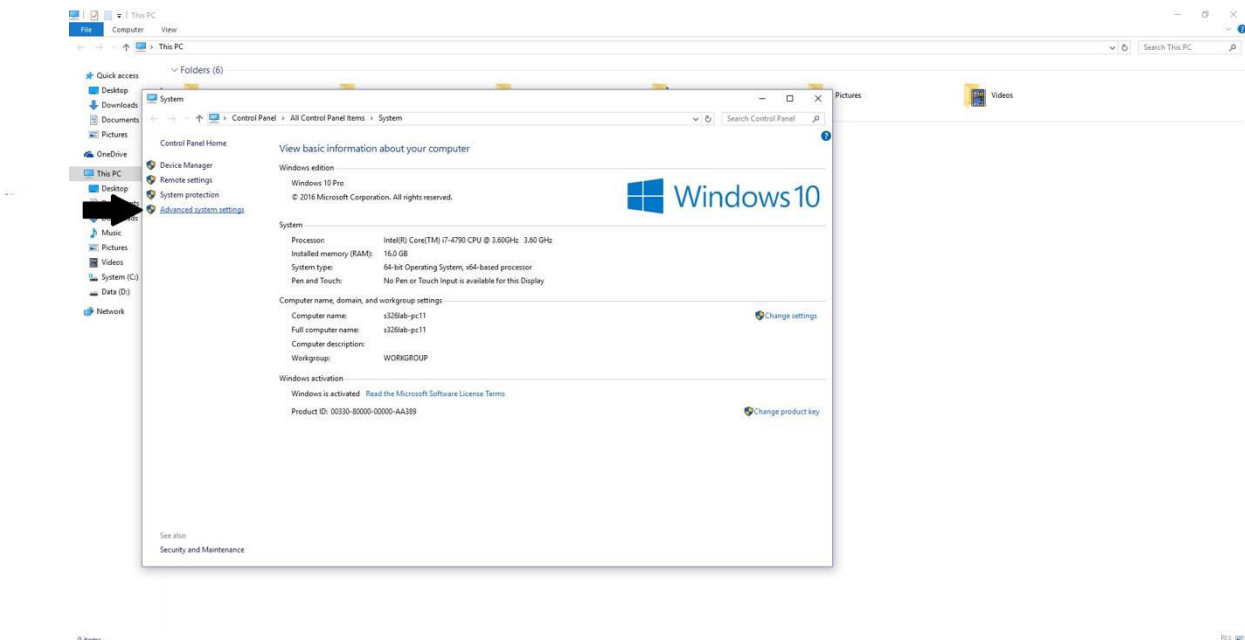B. Setting up Maven Environment Variables

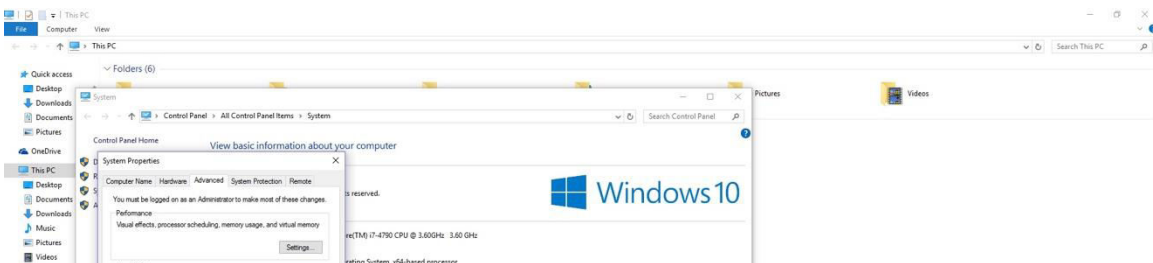1.0 Extract Maven to a directory and copy the location

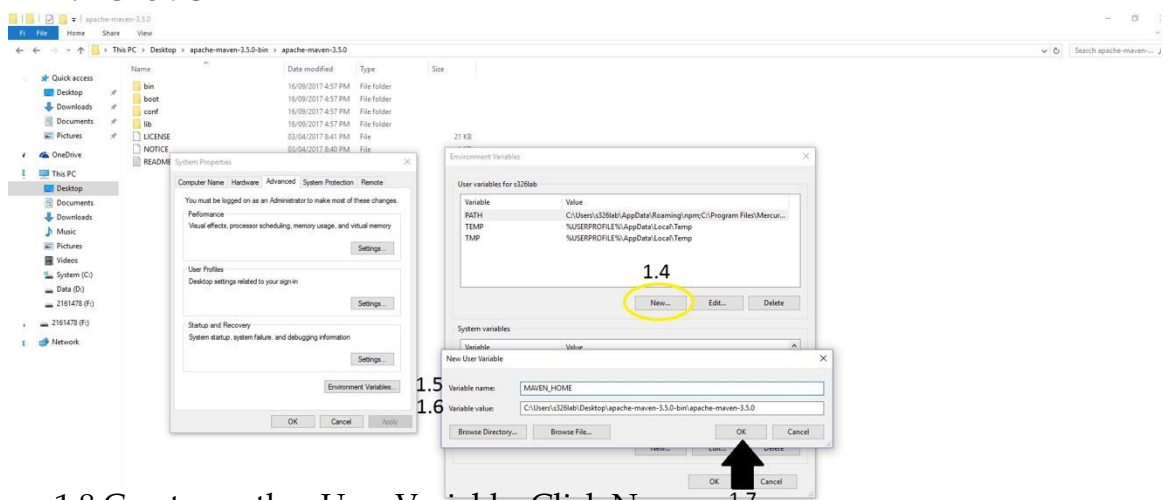1.1 Go to my computer; check the system properties by doing a right click and select properties

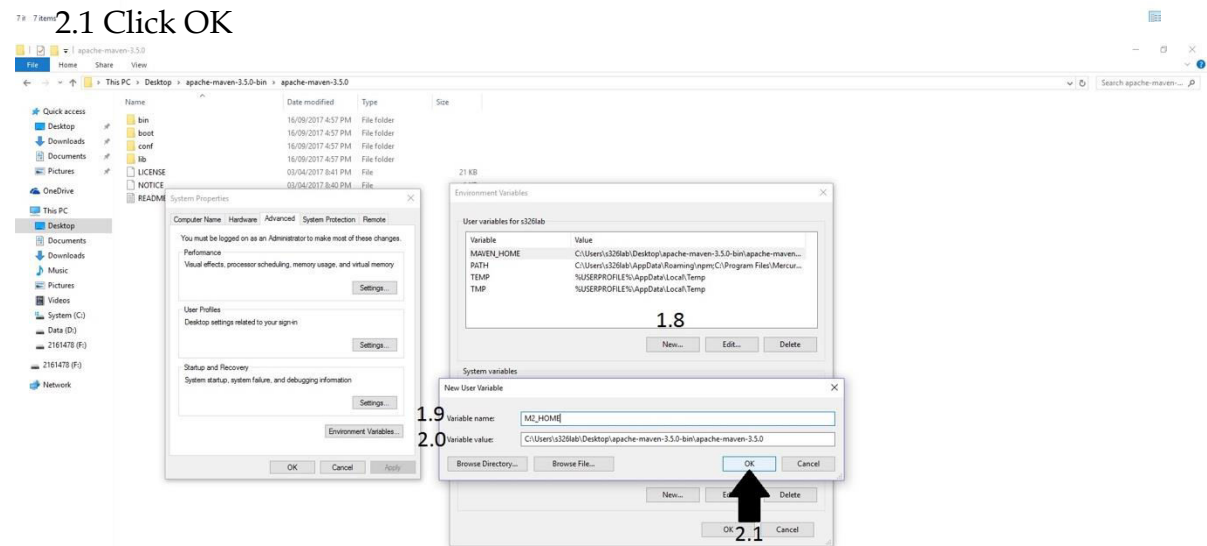1.2 Open Advanced system settings
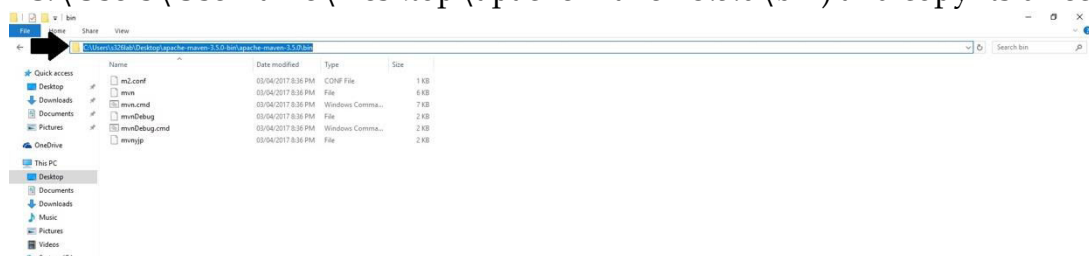

1.3 Open Environment Variables

1.4 Go to User Variables, click New…

1.5 For variable name, put MAVEN_HOME

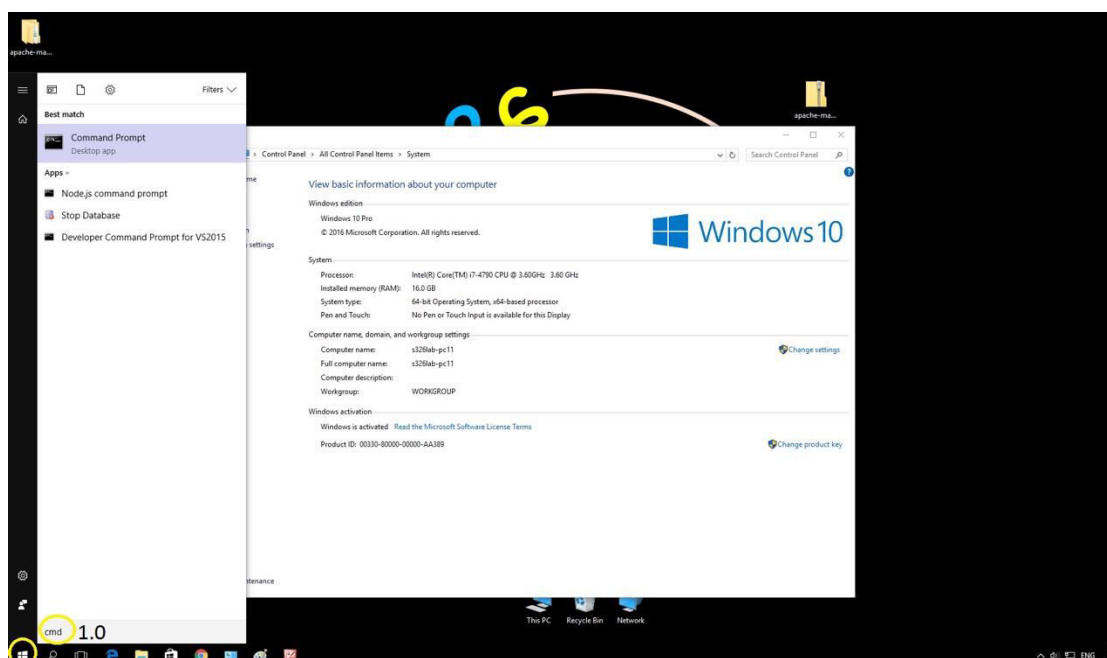1.6 For variable value, paste the directory you have copied in step 1.0

1.7 Click OK

1.8 Create another User Variable, Click New… 1.7

1.9 For variable name, put M2_HOME

2.0 For variable value, paste the directory you have copied in step 1.0

2.1 Click OK

2.2 Locate your java Maven bin folder (e.g.
C:\Users\Username\Desktop\apache-maven-3.5.0\bin) and copy its directory

2.3 Go to System Variables locate "Path" click Edit
2.4 Click New
2.5 Paste the directory you have copied in step 2.2
2.6 Click OK

C. INSTALLATION VALIDATION
1.0 Click Start, open command prompt by typing "cmd"

1.1 Type "mvn –version", this command will return the version of maven and jdk you have installed. The command will also show you the location of Maven and Java Home.