

Windows OS Installation Instructions

(1) Download Java:

<https://www.oracle.com/java/technologies/downloads/>

1. Go to Java archive
2. Click on Java SE (8u211 and later)
3. Search for 8u271
4. Download the executable file for Windows x64 (jdk-8u271-windows-x64.exe)
 - a. You might need to create an account with Oracle to download the file.

(1.1) Install Java:

1. Click on the downloaded file (jdk-8u271-windows-x64.exe)
2. Then follow the installation process.
 - a. Remember the path of the folder that you install the Java in. Usually, will be in the c:\Program Files\Java\jdk1.8.0_271

(1.2) Set environment path:

1. Go to search and write environment.
2. From **Advance Tab** click on the **Environment Variables**.
3. The window will show two side one for the User Variables and System Variables.
 - a. In User Variables
 - i. Click on path => Edit => New => Paste the path the Java in your folder. It looks like this (C:\Program Files\Java\jdk1.8.0_271\bin). Remember, here you should include the **\bin** in the path. => Okay
 - ii. Click on New for the User Variables =>
 1. Variable name: enter JAVA_HOME
 2. Variable Value: enter C:\Program Files\Java\jdk1.8.0_271. Remember, here you should not include the **\bin** in the path. => Okay
 - b. In System Variables
 - i. Click on path => Edit => New => Paste the path the Java in your folder. It looks like this (C:\Program Files\Java\jdk1.8.0_271\bin). Remember, here you should include the **\bin** in the path. => Okay
 - ii. Click on New for the User Variables =>
 1. Variable name: enter JAVA_HOME
 2. Variable Value: enter C:\Program Files\Java\jdk1.8.0_271. Remember, here you should not include the **\bin** in the path. => Okay
4. To examine if the Java is installed and configured correct. Follow the next step:
 - a. Go to search and write CMD
 - b. Enter java -version. It should return to you the version number (1.8.0_341)
 - c. Enter javac -version. It should return to you the version number (1.8.0_271).

(2) Install Apache Maven:

<https://maven.apache.org/download.cgi>

1. Go to the Files section.
2. Download the zip file for Binary Zip archive (apache-maven-3.8.6-bin.zip).
3. Go to Windows (C:) and create a folder named (Maven folder).
4. Unzip the file that you downloaded (apache-maven-3.8.6-bin.zip) from the website into the created folder (Maven folder).

(2.1) Set environment path:

1. Go to search and write environment.
2. From **Advance Tab** click on the **Environment Variables**.
3. The window will show two side one for the User Variables and System Variables.
 - a. In User Variables
 - i. Click on path => Edit => New => Paste the path the Java in your folder. It looks like this (C:\Maven folder\apache-maven-3.8.6\bin). Remember, here you should include the **\bin** in the path. => Okay
 - ii. Click on New for the User Variables =>
 1. Variable name: enter MAVEN_HOME
 2. Variable Value: enter C:\Maven folder\apache-maven-3.8.6. Remember, here you should not include the **\bin** in the path. => Okay
 - b. In System Variables
 - i. Click on path => Edit => New => Paste the path the Java in your folder. It looks like this (C:\Maven folder\apache-maven-3.8.6\bin). Remember, here you should include the **\bin** in the path. => Okay
 - ii. Click on New for the User Variables =>
 1. Variable name: enter MAVEN_HOME
 2. Variable Value: enter C:\Maven folder\apache-maven-3.8.6. Remember, here you should not include the **\bin** in the path. => Okay
4. To examine if the Java is installed and configured correct. Follow the next step:
 - a. Go to search and write CMD
 - b. Enter mvn -version. It should return to you the version number (3.8.6)

(3) Install IntelliJ IDEA:

<https://www.jetbrains.com/idea/download/#section=windows>

1. Go to the Windows.
2. Download the community version.

(3.1) Set environment

1. After you download the executable file.
2. Go and install the program. You may need to choose the following:
 - a. Add "bin" folder to the PATH and IntelliJ IDEA community Edition.
 - b. Restart your computer.
3. You need to unzip the SimpleCalculator file in order to import the code into the IntelliJ IDE.
4. Open the IntelliJ and choose Open from the options.
5. Select the folder of the SimpleCalculator from your computer.
6. Then, Tick the option of trust projects in ~\Desktop and click Trust Project.
7. Click on Always download the pre-built. To make sure that the SDK is configured and working on your IntelliJ. You can use (Ctrl + shift + alt + s) to open project structure.
8. Go to Terminal in the bottom of your screen and write:
 - a. `java -version`. It should return to you (1.8.0_341).
 - b. `mvn -version`. It should return to you (3.8.6).

(3.2) Browse the code

1. Go to src folder
2. Test => JAVA => Calculator_ESTest file to see the test cases in the program.
3. In order to look for the source code. You need to go to Main => Calculator.