

Setting up Java

1. Setting up Java SE Development Kit (JDK)

Java (JDK) is needed for compiling Java programs. If your computer already has the JDK installed, you may skip this section. If you are using a Mac, you do not need to perform step 3 below.

Step 1- Download Java SE JDK version 18 (or latest posted).

Go to <https://www.oracle.com/java/technologies/javase-downloads.html>

Under the heading Oracle JDK, click on the **JDK Download** button to load the download page. Scroll down the page to view the available downloads. For Windows PCs, click on the link to download **jdk-18_windows-x64_bin.exe** OR for MacOS download **jdk18_macos-x64_bin.dmg**.

Accept the license agreement and click the button to download the appropriate version. This may take several minutes, depending on the speed of your connection.

Step 2 – Install. Once the download is complete, click on the file and run the Java Installation Wizard. The installation procedure is straightforward. Use the default settings, the JDK will be installed in C:\Program Files\Java\jdk-18.0.2.1\ or in a library folder on a Mac.

Step 3 - Update the PATH (required for **Windows OS only**). After the installation is completed, you will need to update the Windows PATH environmental variable so the operating system can find the location of the Java tools. For Windows versions older than Windows10, see <https://www.computerhope.com/issues/ch000549.htm> for how to access and change the **Environment Variables**. For Windows 10, you can simply go to the Windows Start Menu and search for **System Environment Variables**. Click **Edit System Environment Variables**, then:

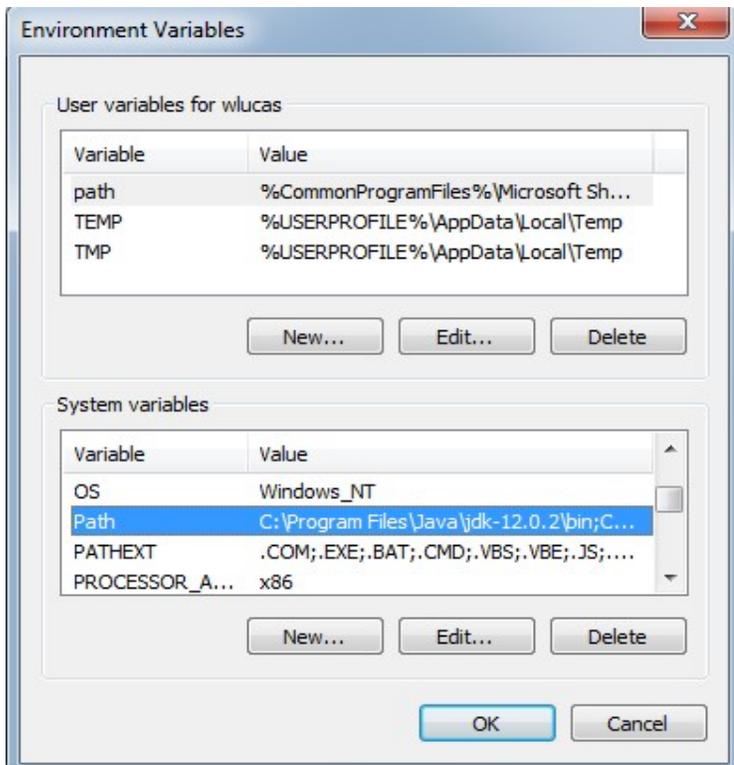
- Click the **Environment Variables** button in the System Properties window.
- In the lower scroll window, find the **system variable** called **Path** and double click it.
- Click the **New** button and add the following **Path** statement, making sure to use the correct number for the

version you downloaded: **C:\Program Files\Java\jdk-18.0.2.1\bin**. Click the **Move Up** button until this

path statement is the first one in the list.

- Click the OK button to save this change. Click the OK button again to exit the windows.

The resulting path should be similar to the one shown in the figure below, except it should show version 18



Step 4 – Verify that you have installed the Java JDK properly:

On a Windows machine, go to the Start menu, type **cmd** in the search box, and click on Command Prompt. On a Mac, open the Terminal window. In either case, type the following in the command line window that appears and then press enter: **javac -version**

You should see a text response that indicates you have installed javac 18