

**Lab Topic:** Introducing JDK and NetBeans 8.2

**Course Code:** CSE110 (Object Oriented Programming)

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**Lab Objective:**

In this document, we will see how to install JDK and NetBeans IDE 8.2 .

**Installing JDK and NetBeans 8.2:**

**1. Downloading and Installing JDK**

- i. JDK is required to be installed in your machine to compile and execute a Java code.
- ii. JDK means complete java development kit that includes JRE (Java Runtime Environment), compilers and various tools like JavaDoc, Java debugger etc
- iii. We need to install JDK since we are going to write, compile and execute Java programs.
- iv. To download JDK 1.8 go to the following link:<https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>
- v. After downloading, run the exe file. It will start the installation procedure.
- vi. The procedure may take a few minutes depending on the configuration of your machine.
- vii. Once the installation procedure is finished, we need to configure the PATH system variables so that Java code can be compiled and executed from anywhere in the hard disk.
- viii. To do that, right click on This PC or My Computer icon on the desktop and then click properties. You will see the following window opens as shown in Figure1.

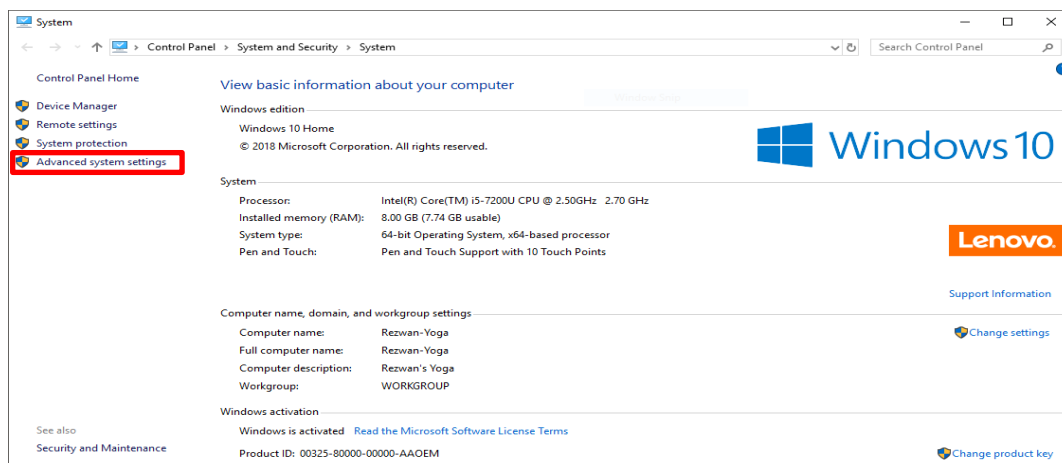


Figure 1: System Window

ix. Click on advanced system setting as highlighted. System Properties window pops up as shown in Figure2.

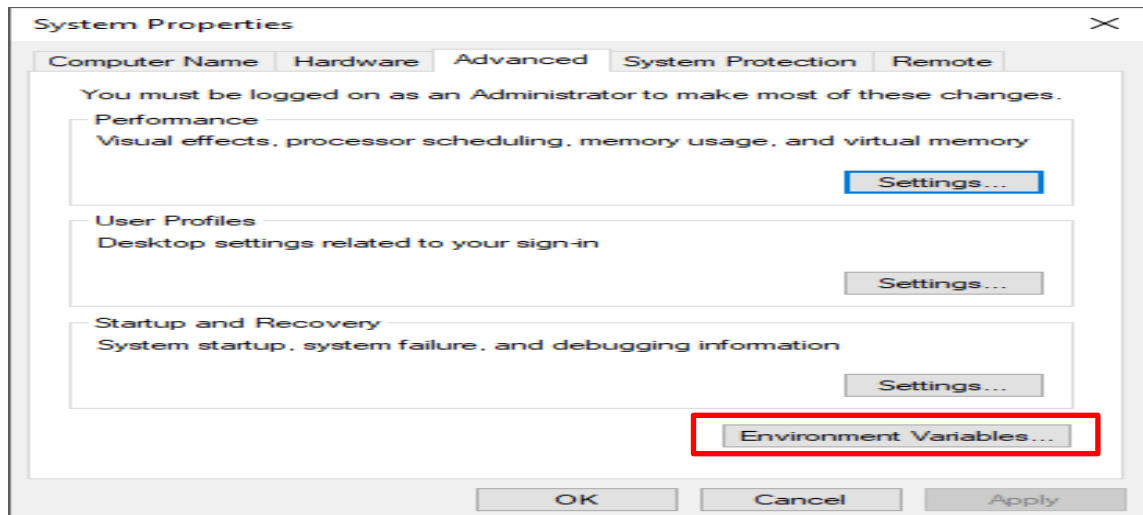


Figure 2: System Properties Window

x. Click on Environment Variables. It will open the window as shown in Figure3.

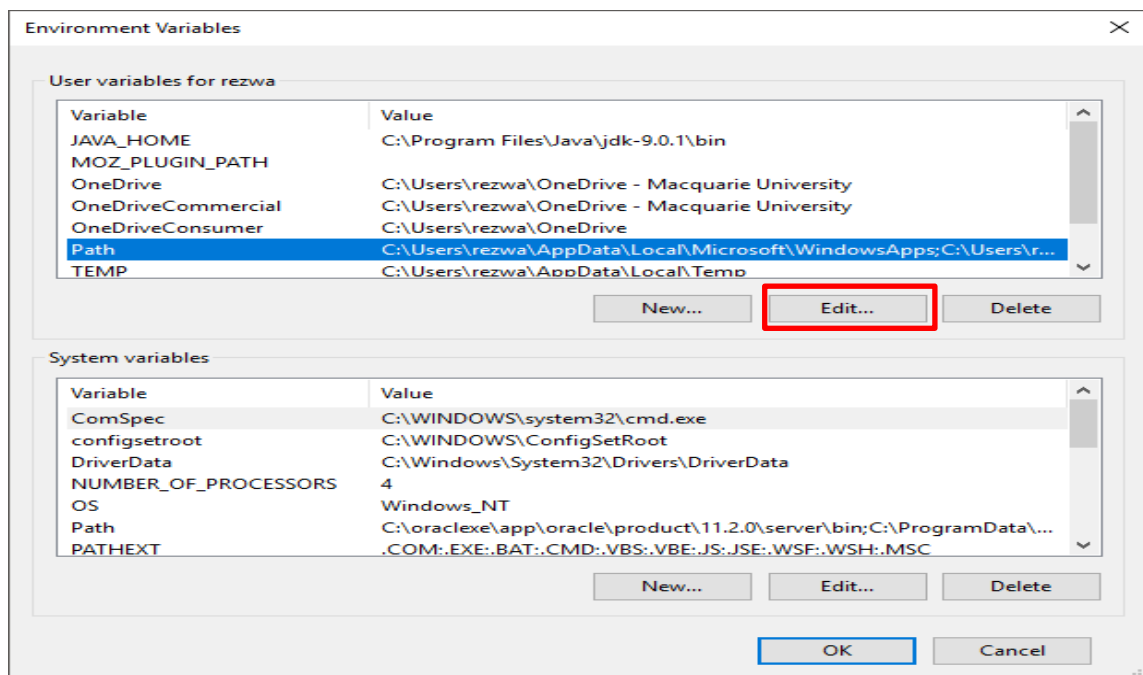


Figure 3: Environment Variables Window

xi. Now, click on Edit. A new window pops up as shown in Figure4.

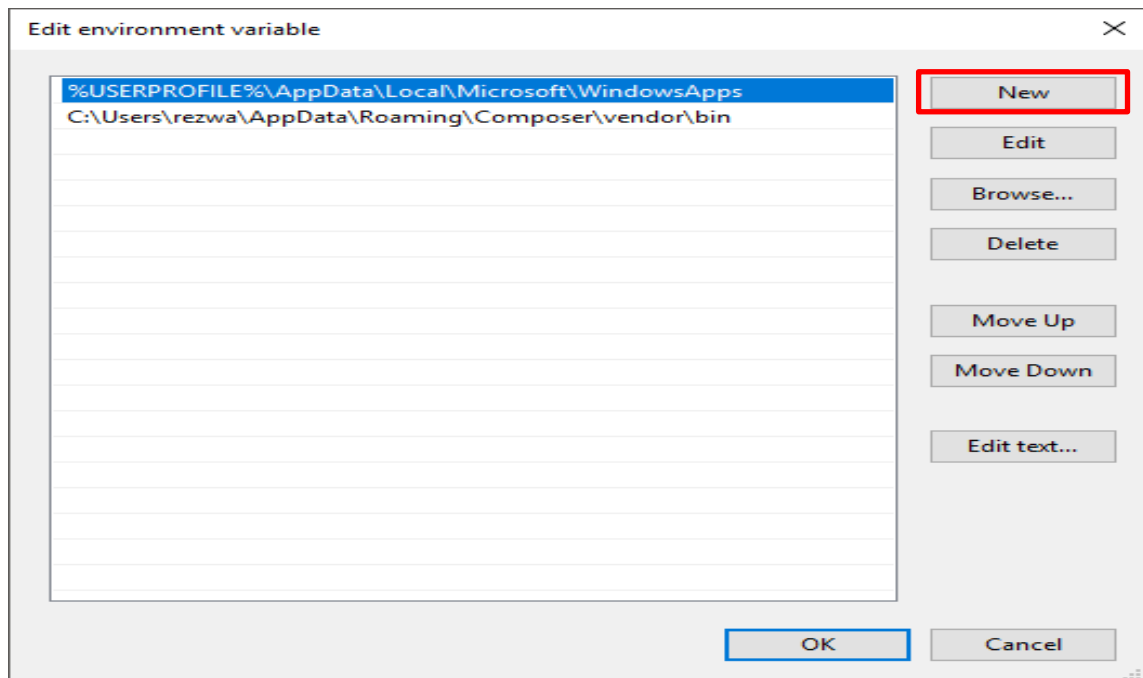


Figure 4: Edit environment variable Window

Press New and then paste the path where the JDK has been installed. Usually, the path is - C:\ProgramFiles\Java\jdk-XXX\bin

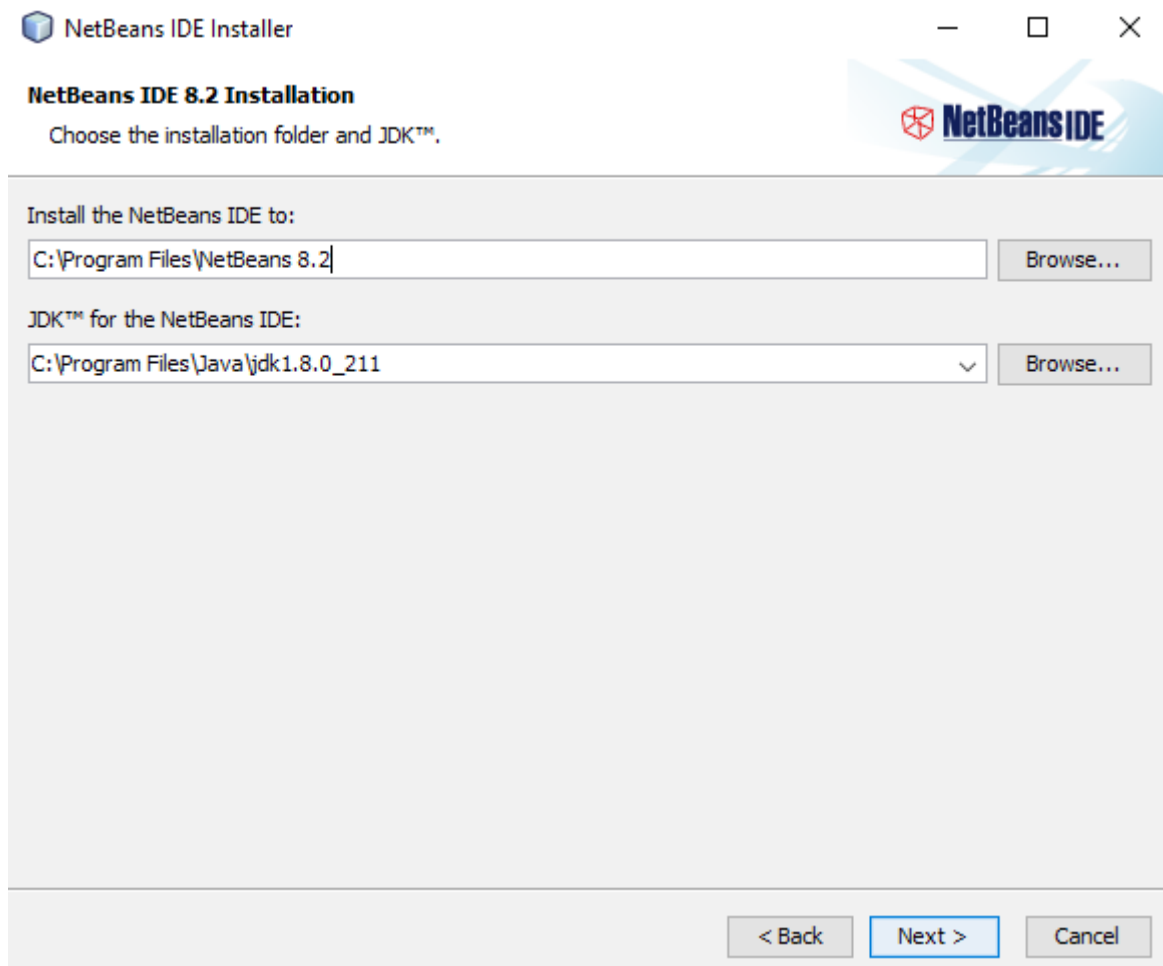
2. Go to the following link <https://netbeans.org/downloads/8.2/> and download the appropriate version.

The image shows the NetBeans IDE 8.2 Download page. The page has a blue header with the NetBeans logo and navigation links: NetBeans IDE, NetBeans Platform, Plugins, Docs & Support, Community, and Partners. There is a search bar on the right. Below the header, the page title is 'NetBeans IDE 8.2 Download'. There are links for '8.1', '8.2', 'Development', and 'Archive'. Below the title, there is a form for email address (optional), a checkbox for 'Subscribe to newsletters' (with 'Monthly' and 'Weekly' options), and a checkbox for 'NetBeans can contact me at this address'. There are also dropdown menus for 'IDE Language' (set to 'English') and 'Platform' (set to 'Windows'). A note states: 'Note: Greyed out technologies are not supported for this platform.' Below the form, there is a table titled 'NetBeans IDE Download Bundles'.

Supported technologies *	Java SE	Java EE	HTML5/JavaScript	PHP	C/C++	All
NetBeans Platform SDK	•	•				•
Java SE	•	•				•
Java FX	•	•				•
Java EE		•				•
Java ME						•
HTML5/JavaScript		•	•	•		•
PHP			•	•		•
C/C++					•	•
Groovy						•
Java Card™ 3 Connected						•
Bundled servers						
GlassFish Server Open Source Edition 4.1.1		•				•
Apache Tomcat 8.0.27		•				•

Below the table, there are download buttons for each bundle. The buttons are labeled 'Download' and 'Download x86' or 'Download x64'. The download sizes are listed below the buttons: Free, 95 MB; Free, 197 MB; Free, 108 - 112 MB; Free, 108 - 112 MB; Free, 107 - 110 MB; Free, 221 MB.

3. Run the .exe file to start the installation process.
4. Click next, accept the license agreement and then the following page will appear



If the page is like this picture, do not change anything. Otherwise make necessary changes to it – like creating a folder named NetBeans 8.2 in Program Files (not Program Files x86) and change the directory of JDK appropriately (where you have installed JDK).

5. The next steps are pretty much easy. Just click next next until you are done with the whole installation process. It may take several minutes. Do not be impatient.