

Practices - Section 1

Part 0: Download the JDK8 and NetBeans IDE bundle

Overview

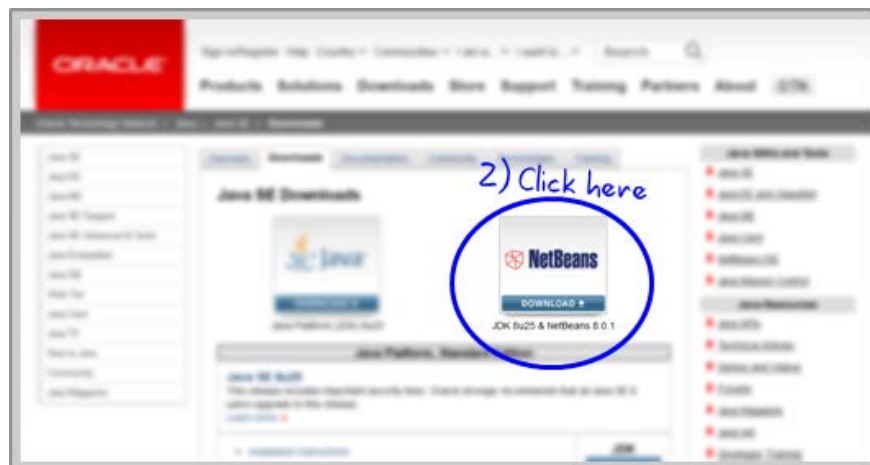
Download JDK8 and the NetBeans IDE. You'll need JDK8 or higher for this course.

Tasks

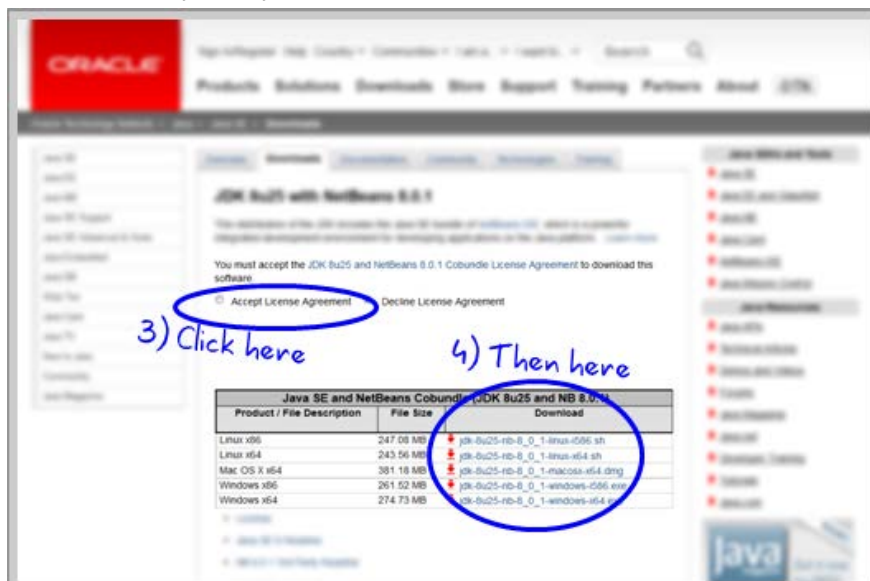
1. Go to the Java SE downloads page:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

2. Select the combined JDK and NetBeans



3. Accept the License Agreement.
4. Choose the correct download for your system.



Part 2: Install JDK8 and NetBeans

Overview

Install JDK8 and the NetBeans IDE.

Tasks



To install on a **Windows** 32-Bit or 64-Bit platform:

1. Double-click the installer file to run the installer.
2. At the Welcome page of the installation wizard, click Next.
3. At the JUnit License Agreement page, decide if you want to install JUnit (Optional) and click the appropriate option, click Next.
4. At the JDK Installation page, specify which directory to install the JDK into and click Next.
5. At the NetBeans IDE Installation page, do the following:
 - a. Specify the directory for the NetBeans IDE installation.
 - b. Accept the default JDK installation to use with the IDE.
6. Click Next.
7. Review the Summary page to ensure the software installation locations are correct.
8. Click Install to begin the installation.
9. At the Setup Complete page, provide anonymous usage data if desired, and click Finish.



To install on a **Mac** platform:

1. After the download completes, run the installer. The installer file has the .dmg extension.
2. On the panel that opens double-click the package icon. The package has the .mpkg extension. The installation wizard starts.
3. At the Introduction page of the installation wizard, click Continue.
4. At the Installation Type page, select the appropriate option below:
 - To perform a standard installation of the Software Bundle, click Install.
 - To specify another installation location, click Change Install Location.
5. (Optional, required if you clicked Change Install Location in step 4) At the Destination Select page, specify the disk for Software Bundle installation and click Continue.
6. (Optional, required if you clicked Change Install Location in step 4) At the Installation Type page, click Install.
7. Enter the administrator's name and password for your system and click Install Software to begin the installation.

The Installation page displays the progress of the installation.
8. When the installation is complete, click Close at the Summary page.



To install on a **Linux** platform:

1. Type the following command from the directory where you placed the installation file:

```
./<installer-file-name>
```

2. At the Welcome page of the installation wizard, click Next.
3. At the JUnit License Agreement page, decide if you want to install JUnit (optional) and click the appropriate option, click Next.
4. At the JDK Installation page, specify the directory where to install the JDK and click Next.
5. At the NetBeans IDE Installation page, do the following:
 - a. Specify the directory for the NetBeans IDE installation.
 - b. Accept the default JDK installation to use with the IDE or specify another JDK location.
6. Click Next.
7. Review the Summary page to ensure the software installation locations are correct.
8. Click Install to begin the installation.
9. At the Setup Complete page, provide anonymous usage data if desired, and click Finish.

Note: If you choose to install this bundle into a system-wide location such as `/usr/local`, you must first login as root to gain the necessary permissions.

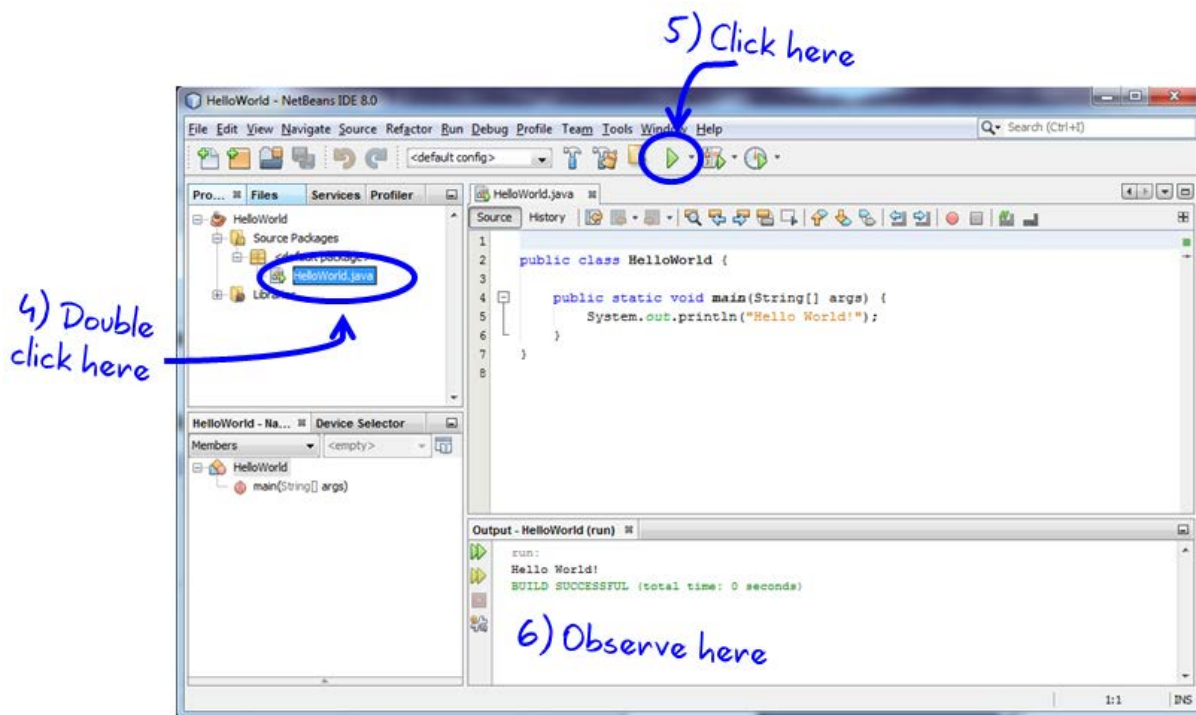
Part 1: Testing NetBeans

Overview

Test NetBeans to verify your installation was successful.

Tasks

1. Download and unzip the HelloWorld Project.
2. Launch NetBeans.
3. Go to *File>Open Project* and select the HelloWorld project.
4. Expand the project and open HelloWorld.java.
5. Compile and run the project.
6. Observe the output



7. Edit the code so that it prints a message other than "Hello World!".
 - Compile and run your code to verify your changes work.
8. Change the 'S' in "System" to lower-case and try to compile.
 - Is Java syntax case-sensitive?
9. Remove the semicolon (;) and try to compile.
 - Is the semicolon important to Java syntax?