

BSc (Hons) in Computing

Enterprise Computing

Lab Sheet 1: Introduction to Netbeans.

Objective: To get familiar with the Netbeans IDE.

If Netbeans with Java EE support is not on your machine (can you create a Java EE project?), download and install the latest version from <http://www.netbeans.org/> . **Select the bundle for all technologies.**

- a) Leave installation settings at the defaults (If using an ITB machine, remove the programfiles folder from installation path.)

The download installs the NetBeans IDE, and GlassFish - Sun's web and application server.

- b) Startup the Netbeans IDE: select the NetBeans shortcut from the desktop, or run C:\NetBeans\bin\netbeans.exe
- c) Build a simple 'hello world' app by following <https://netbeans.org/kb/docs/java/quickstart.html>.

Netbeans shortcuts:

1. Code Completion: there are a number of short cuts available when typing code, for example `Pri` *crtl+space* become *private*.
2. As you start type a variables Type, Netbeans will provide a dropdown box off possible types based on the import statements/classpath. Navigating through the data type in the drop down box provided brings up the Javadocs for that class.
3. Typing the name of the object followed by `.` (e.g. `list.`) will bring up a dropdown box of all public attributes and methods in that class.
4. If you use a data type which is not in the list of imports, netbeans will prompt you with suggested imports.
5. Code templates: The tab key will convert shorthand into frequently used code snippets, for example:
 - a. `Psf`*Tabkey* become `private static final`

- b. Psvm`Tabkey` becomes public static void main(String[] args){
}
 - c. Forc`Tabkey` becomes a for loop iterating through a collection
 - d. ifelse`Tabkey` becomes an if else statement with appropriate brackets
 - e. soutv`Tabkey` becomes System.out.println("")
 - f. trycatch`Tabkey` generates a try catch block
 - g. whileit`Tabkey` generates a while loop iterating through an Iterator.
6. As you start typing JSF tags, you will see netbeans providing valid code completion options based on the context, including valid parameters for within a tag, and valid tag names themselves.

Note: Netbeans has a range of tutorials and other useful resources covering all technologies on this module. These can be accessed via their learning trail for JEE and web applications here:
<https://netbeans.org/kb/trails/java-ee.html>