Using NetBeansTM to Compile and Run Java Programs

(This document is based on NetBeans 4.1. For information on other versions of NetBeans, contact the author via email: *BeginProg2 at BurdBrain dot com*.)

1. Download NetBeans by visiting <u>http://www.netbeans.org</u>.

2. Install the downloaded NetBeans program on your computer.

3. Run NetBeans by clicking the NetBeans icon.



You see the NetBeans opening screen.

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Welcome ×	() ()
Java	Knetbeens.org ans ide 4.1
New Project	Sample Project
Quick Start Guide	J2ME Support Download Page
Project Import Guide	Product Information
	versioning Tools Window Help Welcome x Welcome x Welcome x New Project Quick Start Guide Project Import Guide

4. Click New Project.

The New Project dialog appears.

Steps	Choose Project		
. Choose Project	Categories: Projects:		
2	General Web Enterprise Samples	 Dava Application Java Class Library Java Project with Existing Sources Java Project with Existing Ant Script 	
	Description:]]	
	Creates a new J25E applicat the project. Standard projects u your project.	ion in a standard IDE project. You can also generate a main class in se an IDE-generated Ant build script to build, run, and debug	

5. In the Categories pane, select General, and in the Projects pane, select Java Application.

6. Click Next.

The New Java Application dialog appears.

New Java Application			
Steps	Name and Location		
 Choose Project Name and Location 	Project <u>N</u> ame:	JavaApplication1	
	Project Location:	C:\JavaPrograms Browse	
	Project Fol <u>d</u> er:	C:\JavaPrograms\JavaApplication1	
	Set as <u>M</u> ain Pr	oject	
	Create Main C	lass Javaapplication1.Main	
		<pre>< Back Next > Einish Cancel Help</pre>	

7. Unless you're fussy, you can accept whatever defaults you see in the Project Name, Project Location, and Project Folder fields. Leave Set as Main Project checked. But in this example, you should uncheck Create Main Class.

8. Click Finish.

A new project tree appears in the NetBeans Projects window.



9. On the project tree, right-click the Source Package branch. In the resulting context menus, select New \rightarrow Java Class.

S NetBeans IDE 4.1 - JavaApplication1 File Edit View Build Run Refactor Versioning Tools Window 5 62 -P. PA. 8 P) P mile Welcome × Proj... Runtime 🖃 🎂 JavaApplication1 🗄 🛗 Source Packages 🖹 File/Folder... 🗄 🛗 Test Packages New , 🗄 词 Libraries Ctrl+F Find... 🗟 Java Class... 🗄 词 Test Libraries 🗐 Java Package... Ctrl+V Paste 📓 Java Interface...

Tools

Properties

On a Macintosh, substitute Ctrl-Click for right-click.

The New Java Class dialog appears.

🛞 New Java Class		×
Steps	Name and L	ocation
 Choose File Type Name and Location 	Class <u>N</u> ame:	MyFirstJavaClass
	Project:	JavaApplication1
	Location:	Source Packages
	Package:	×
	<u>C</u> reated File:	C:\JavaPrograms\JavaApplication1\src\MyFirstJavaClass.java
	Warning: As	of JDK 1.4, it is highly recommended that you do NOT place Java classes in the default package.
		< <u>Back</u> Next > Einish Cancel Help

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JPanel Form...

🗂 JFrame Form...

10. In the Class Name field, type the name of the class that you want to create.

In this example, I type **MyFirstJavaClass**, because I intend to run the code in Listing 3-1. The name of the Java source file is MyFirstJavaClass.java, but in the Class Name field, I type **MyFirstJavaClass**, without the .java extension.

11. Click Finish.

The new class appears in the Projects window. Some skeletal code for the new class appears in the editor.



12. If you're creating code from scratch, you can type additional code in the editor. But if you're running an example from the book, copy that example's code, and paste the code into the NetBeans editor (replacing the skeletal code that's already in the editor).



13. On the main NetBeans menu, choose File \rightarrow Save.

14. In the NetBeans Projects window, right-click the current project branch. In the resulting context menu, select Set Main Project.

File Edit View Bu	ild Run Refacto	r Versioning Tools	W
BBBB	*	C 2 B B	
Proj 4 × Files	Runtime	Welcome 🗙 🗃 WyFi	rstJa
🕞 - 🍃 JavaApplication1	New +		
G ∰ <default ⊕ @ ^{III}MyFi ⊕ @ Test Package ⊕ @ Libraries ⊕ @ Test Libraries</default 	Build Project Clean and Build Clean Project Generate Javado Run Project	Project oc for Project	iai
	Debug Project Test Project	Alt+F6	ic
	Set Main Project		ou
	Open Required F Close Project	rojects	
	Find	Ctrl+F	
Navigator	Properties		

15. On the main NetBeans menu, choose Build \rightarrow Build Main Project.

The output window shows a successful compilation.



If the compilation isn't successful, make changes to the code in the editor window, and try compiling again.

16. In the Projects window, right-click the current project's branch. In the resulting context menu, select Properties.

ategories:			
Q Sources	Project <u>F</u> older: C:\JavaPro	grams\JavaApplication1	
O Libraries	Source Package Folders:		
Compiling	Package Folder	Label	Add Folder
Packaging Occumenting	src	Source Packages	Remove
🧼 🖉 Run			Move <u>Up</u>
			Move Down
	Package Folder test	Label Test Packages	Add Folder
			Move Up
			Move Do <u>w</u> n
	Source Level: 1.6	×	

The Project Properties dialog appears.

17. On the left side of the Project Properties dialog, select Run.

The fields on the right side change to include Main Class, Arguments, and so on.

Main Class: Arguments: Working Directory: VM Options:	MyFirstJavaClass	Browse
	(e.gXms10m)	Browse

18. In the Main Class field, type the name of the class that contains the main method.

In this example, I type **MyFirstJavaClass**, because I intend to run the code in Listing 3-1. The name of the Java source file is MyFirstJavaClass.java, but in the Main Class field, I type **MyFirstJavaClass**, without the .java extension.

19. Click OK to dismiss the Project Properties dialog.

20. On the main NetBeans menu, choose Run \rightarrow Run Main Project.

The program's output appears in the NetBeans Output window, and everybody is happy.

```
Output - JavaApplication1 (run)

init:

deps-jar:

compile:

run:

Chocolate, royalties, sleep

BUILD SUCCESSFUL (total time: 0 seconds)
```