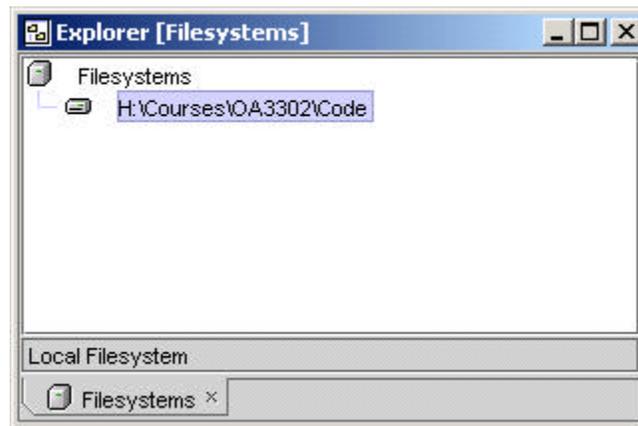


## Java Packages in Netbeans

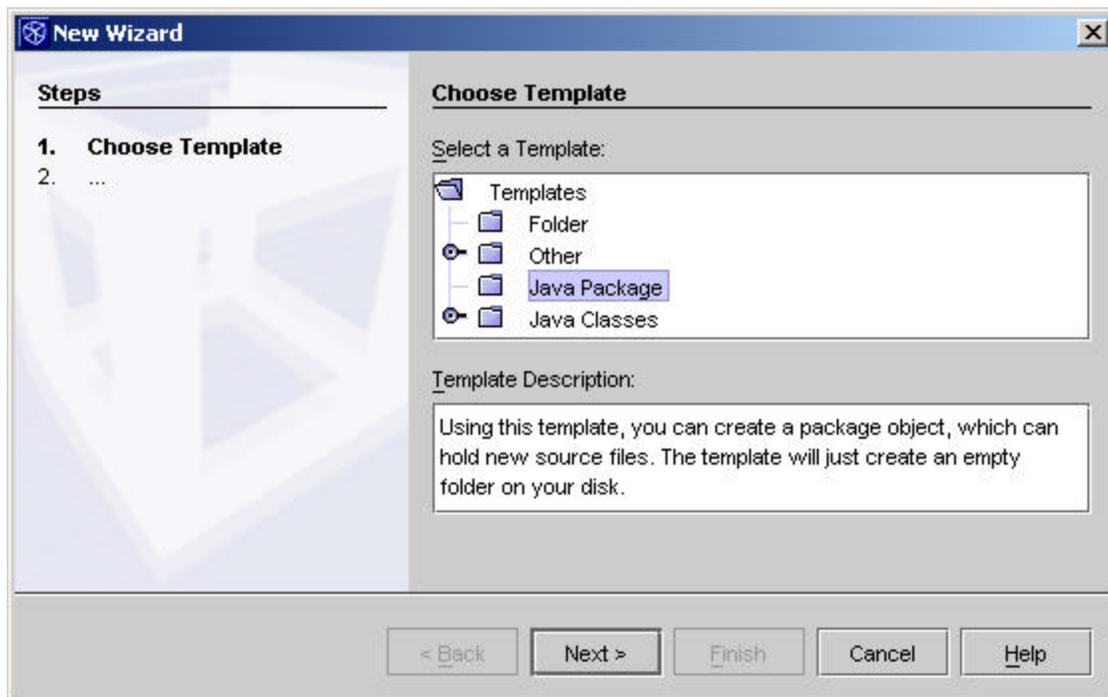
If you have not written Java classes in packages before, this note shows you how to do so. All Java classes in OA3302 must be created in a named package. Java Programs and Computer Labs will be in the “oa3302” package. Your projects will each have their own separate package.

Netbeans allows you to organize groups of files in “Projects.” Open Netbeans and create your OA3302 Project. From the menu, click Project | Project Manager. Then click “New” and fill in the name of your Project (“OA3302”, say). Click “OK” and the new Project will be opened. It is a good idea to have separate Netbeans Projects for each course.

Create a directory (outside Netbeans) that will contain the code and mount it. Your Explorer window should look something like this:

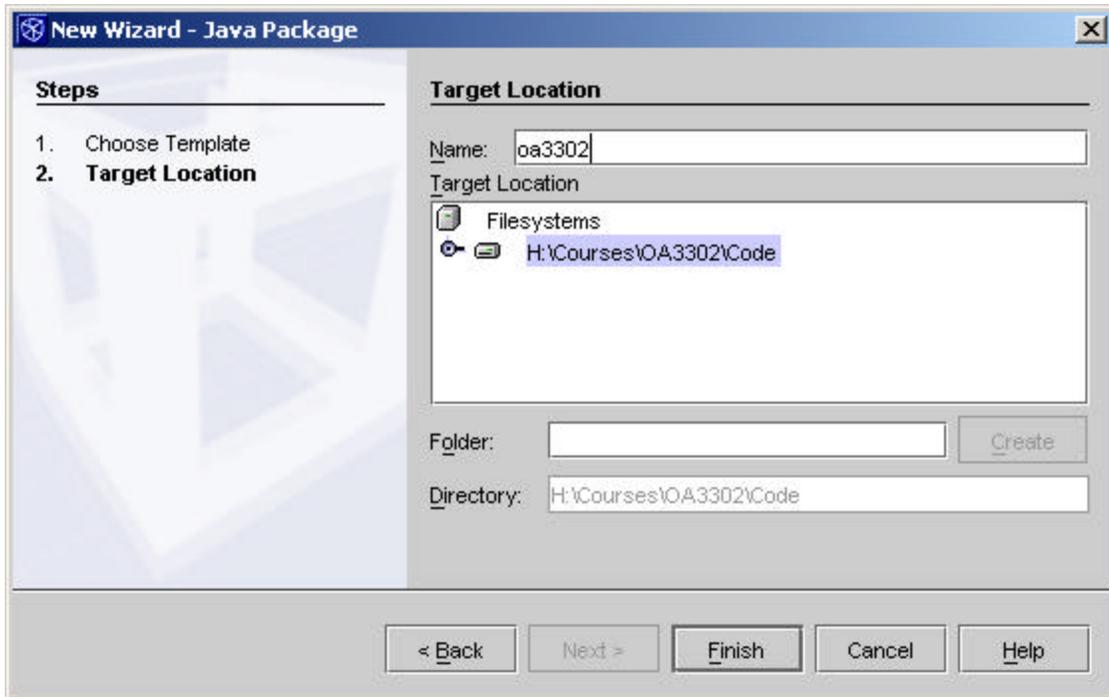


Next, create the java package in the mounted file; from the menu, click File | New and select “Java Package”:

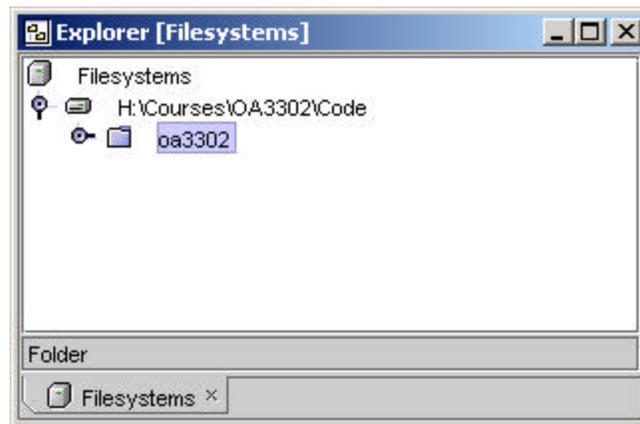


Alternatively, you could right-click on the mount point and select “New | Java Package” from the popup menu.

Click “Next”. Make sure that the mount point (H:\Courses\OA3302\Code in this case) is highlighted and enter the package name (oa3302 - make sure this is in lower case!).



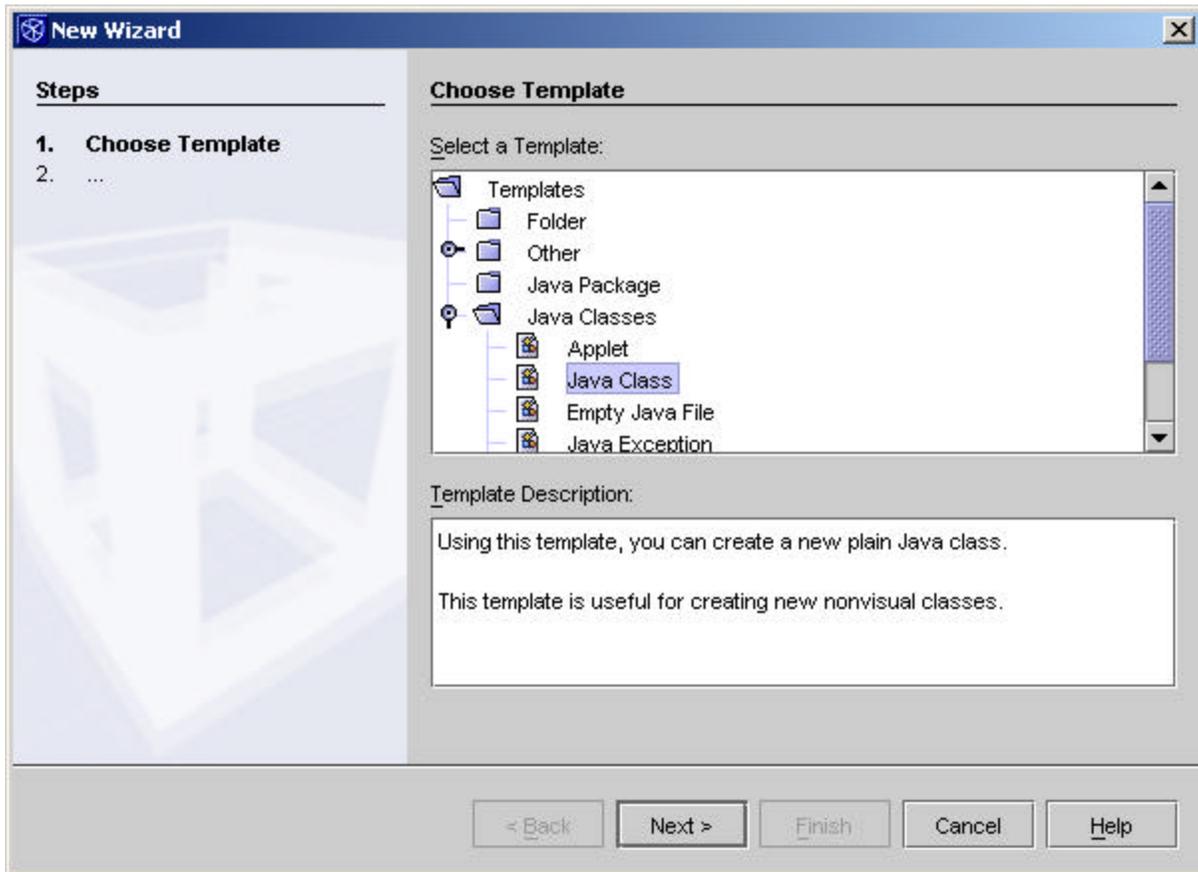
Click “Finish” and the package folder should appear under your mount point in the Explorer window:



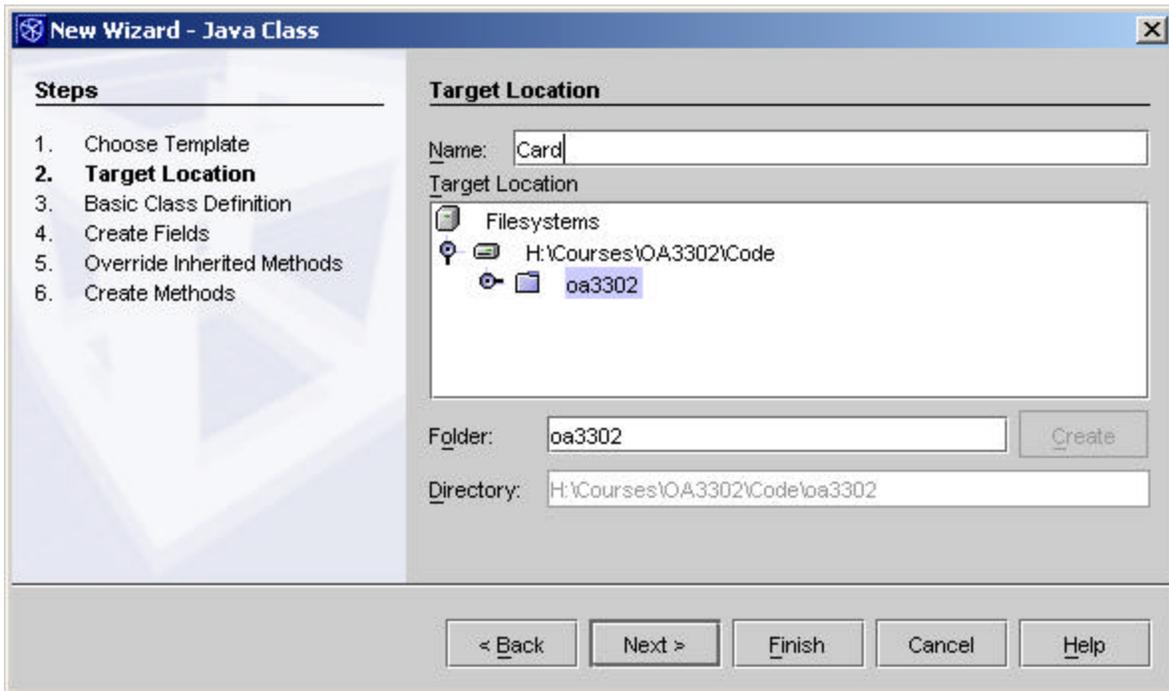
Java requires that the code for every class be located in a directory of the same name. So when you created the oa3302 package, Netbeans created the oa3302 folder for you. The package directory *must* be directly beneath the Netbeans mount point, as shown above. Here, the mount point is “H:\Courses\OA3302\Code” and the directory for the oa3302 package is called “oa3302.”

The standard Java convention is that packages be in all lower case. Although the compiler and virtual machine will accept a package called “OA3302,” that name violates the standard. So “oa3302” should be used instead.

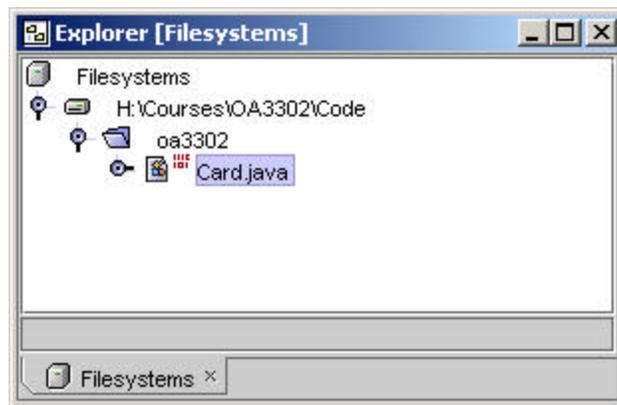
To create a Java class in the package, click “File | New” on the menu (or right-click on the package folder and select “New | Java Class”, then open “Java Classes” and select “Java Class”:



Click “Next.” Then, making sure that the oa3302 package is selected, enter the class name (“Card” in this case):

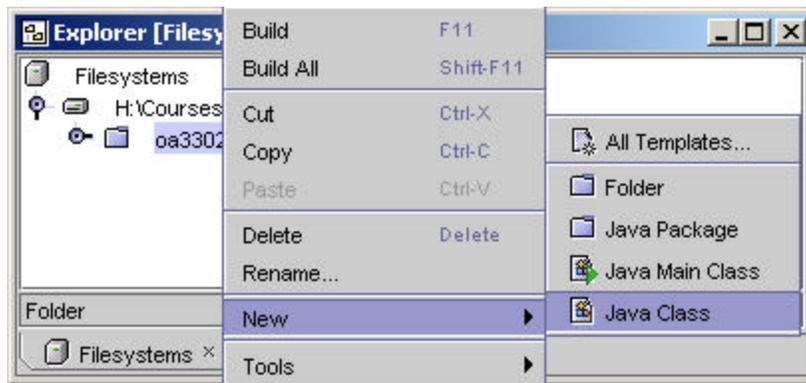


Click “Finish” and the file will appear in the package directory:

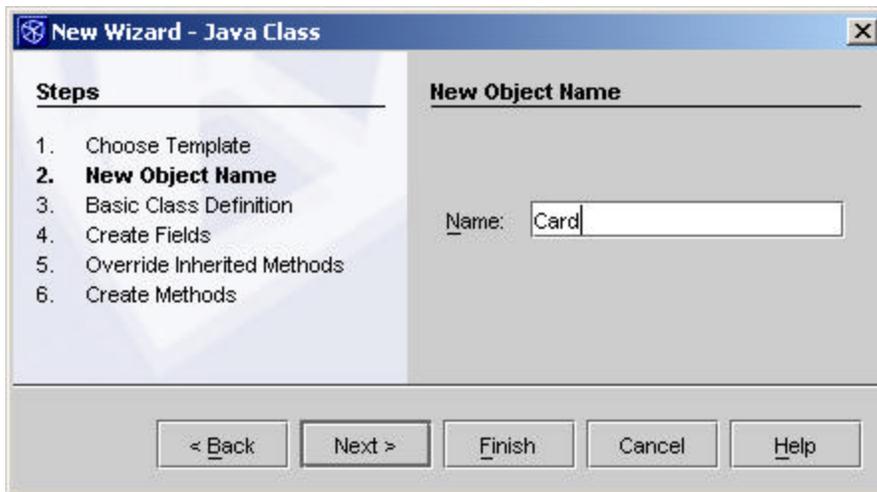


Note that the package declaration is automatically written for you in the source file. Now you can edit and compile the class as usual. Create your other classes in the same way.

Alternatively, you can right-click on the package folder and select “New | Java Class”:

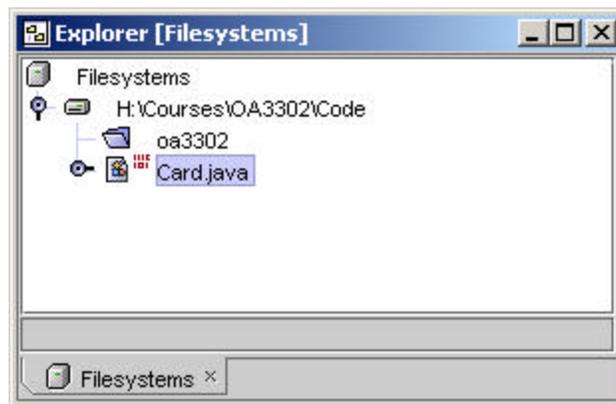


Then just fill in the class name:

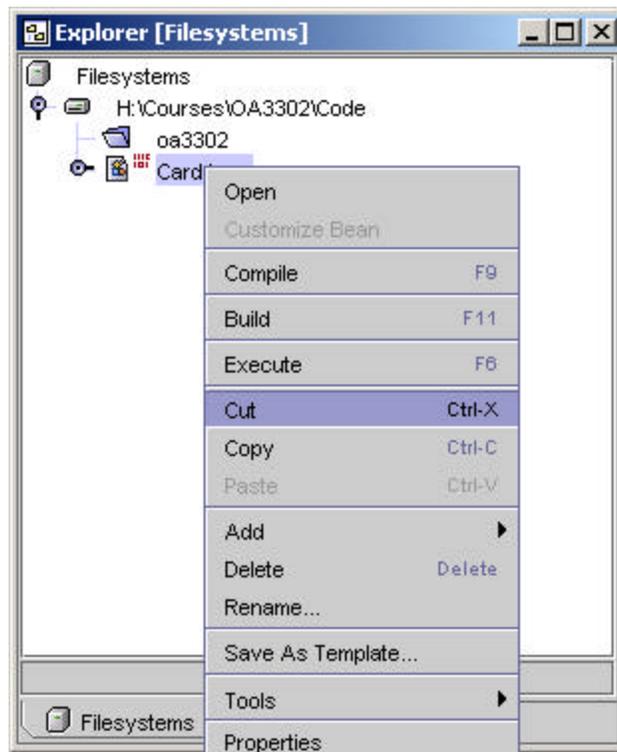


Click “Finish” to create the file.

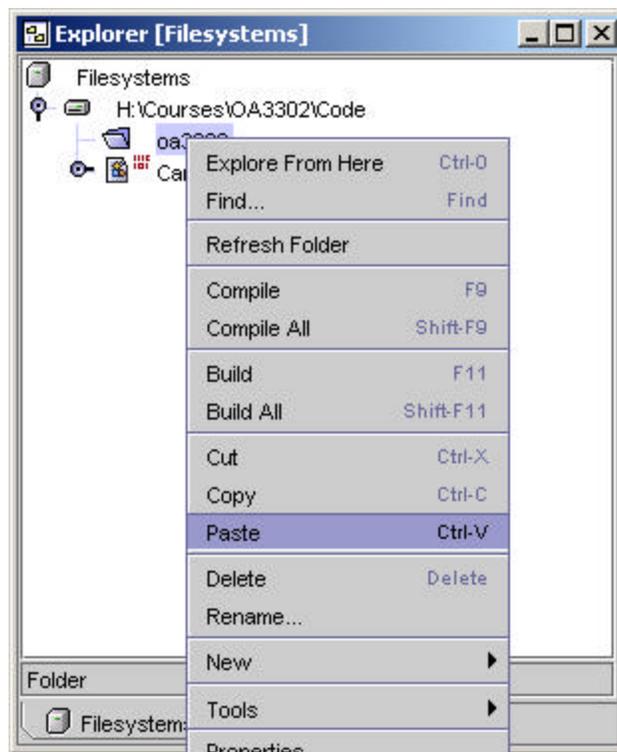
If the file appears anywhere else, you don’t need to start all over. Simply cut and paste the file into the correct package directory. For example, if your file appears like this:



right-click on the file and select “Cut”:



Then right-click on the package folder (“oa3302”) and select “Paste”:



The class should re-appear in the package directory. Note that when the file is pasted into the directory, the appropriate package declaration is added to the source file.