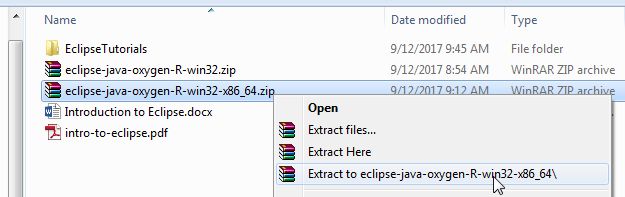
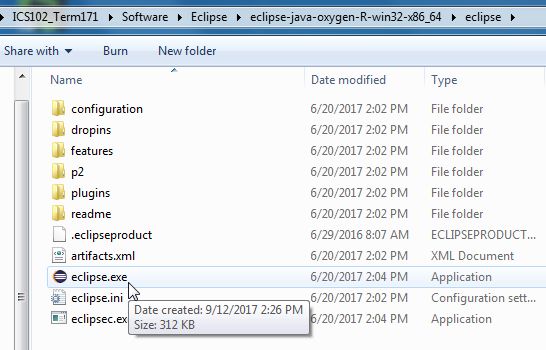
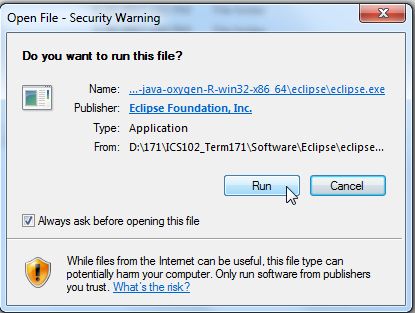
**Eclipse Tutorial 01 – Setting the Workspace and Creating Java Projects**

1. **Setting the Workspace**
2. Extract the Eclipse zip file:



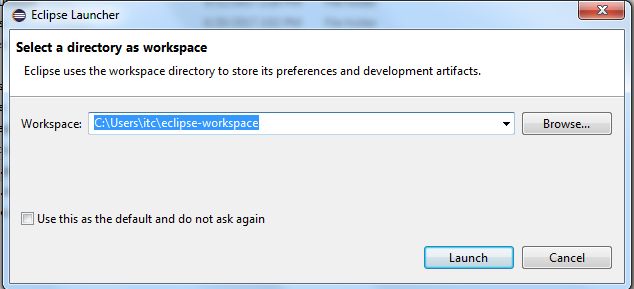
1. Launch Eclipse by double-clicking eclipse.exe

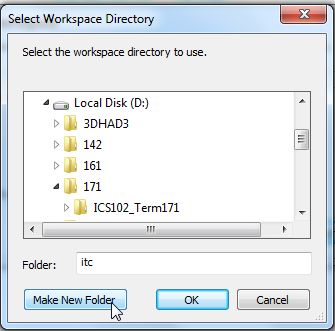




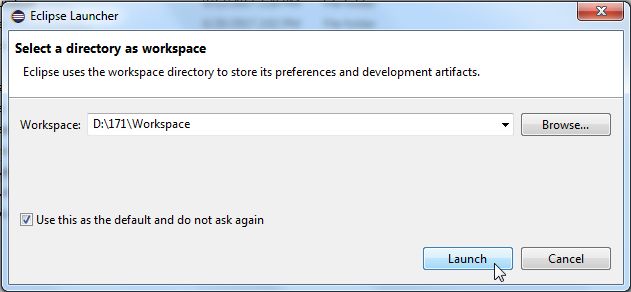
1. The first time you run Eclipse it will prompt you to create a workspace folder. This folder is used by Eclipse to store your Java project files.

Accept the default workspace folder or click the ***Browse*** button to select a different folder:





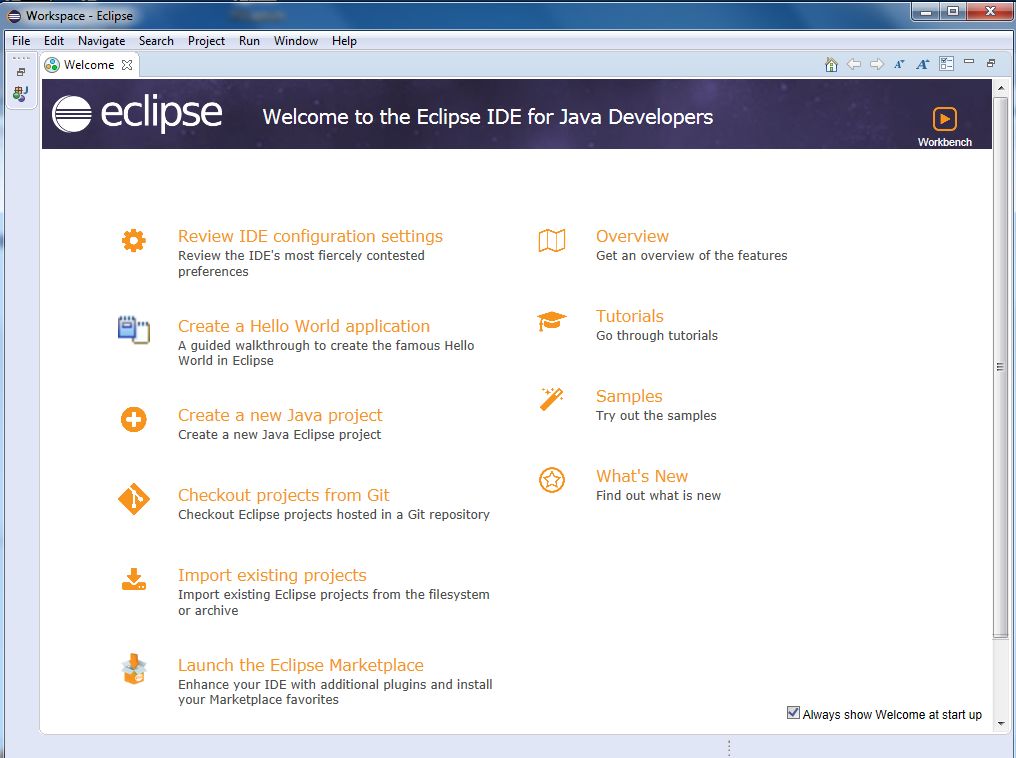
You may decide to choose the selected workspace folder as the default one or otherwise:



1. **Creating and executing a new Java project from a new Java file**

Note: In Eclipse a Java program must be created as part of a project [A folder that contains one or more Java classes and their resources]

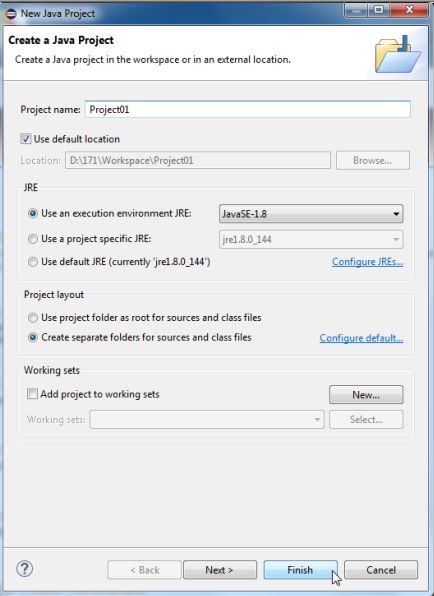
1. Launch eclipse:



1. Click the ***Create a new Java project*** link:



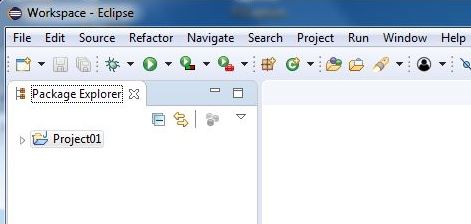
1. Write the project name, accept the defaults, and then click the ***Finish*** button:



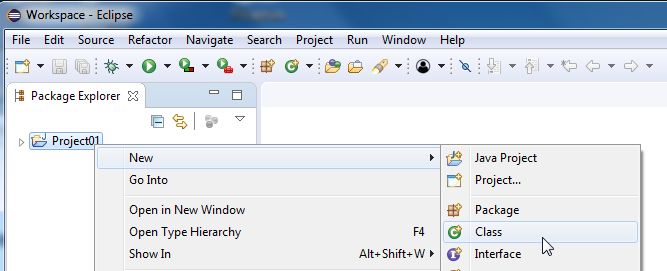
Eclipse will create a project folder with an empty source folder in the selected workspace:



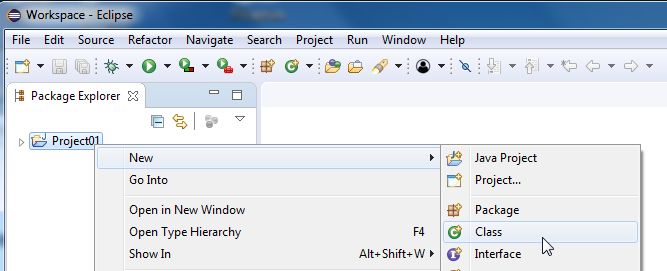
1. To add a Java class to the project, select the project folder:



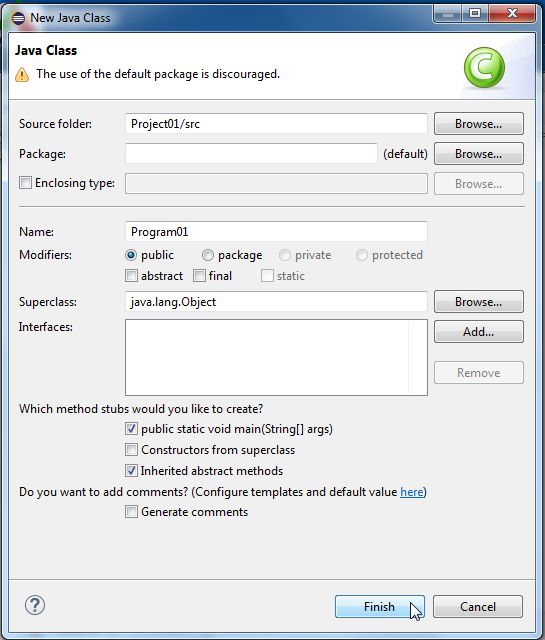
And then select **File** 🡪 **New** 🡪 **Class** :



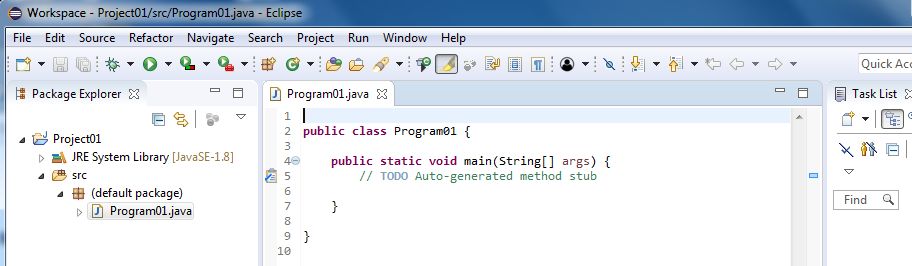
An alternative way of adding a class is to right-click on the project folder and then select **New 🡪 Class** :



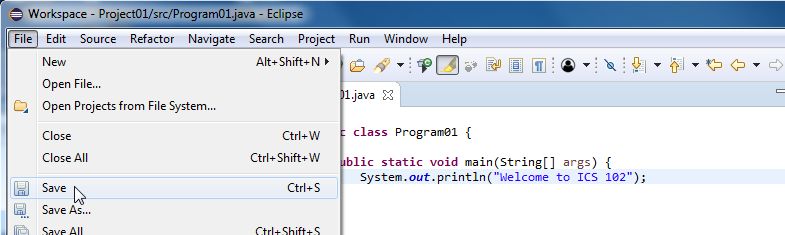
1. Write the class name **without the extension .java**, select the class modifier [We will only use the class modifier **public** in ICS 102], and if the class is to have the **main** method, check the box for **public static void main(String[ ] args)**, finally click the ***Finish*** button :



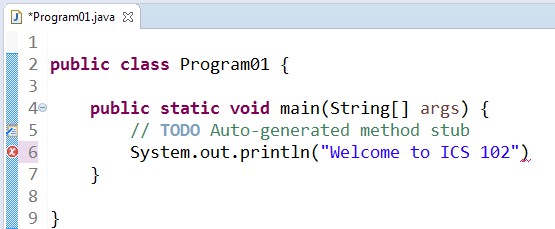
Eclipse will create a Java file in the source folder of your project:



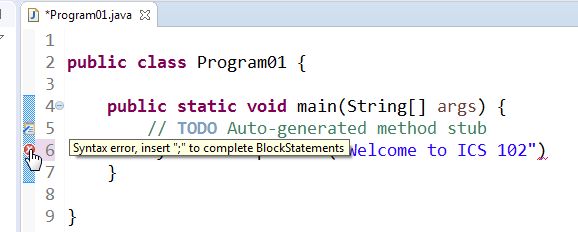
1. Write the class code and then save the Java file by using menu **File 🡪 Save**:

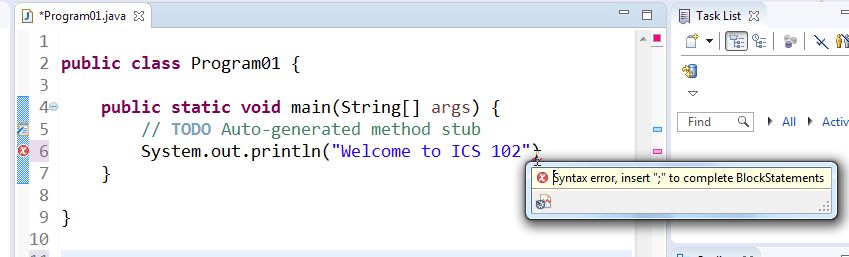


Note: Whenever you start to type a token, Eclipse displays possible completions for that token based on Java keywords. Until it recognizes a correct token, Eclipse will indicate syntax errors by underlining the token where there may be syntax error by a squiggly line:  and highlighting the statement with possible syntax error by the syntax error icon https://www.ics.uci.edu/~pattis/common/handouts/introtopythonineclipse/pyimages/syntaxerroricon.jpg on the left margin:

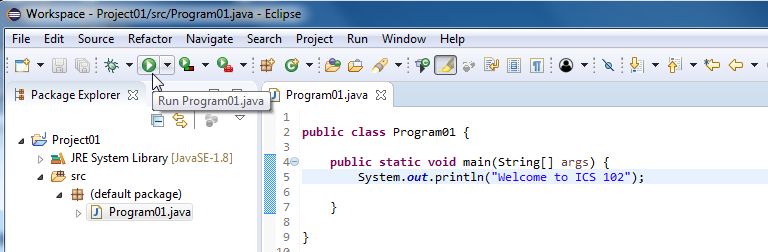


If you hover the mouse over the squiggly line or the syntax error icon, Eclipse will display possible correct syntax. Examples:

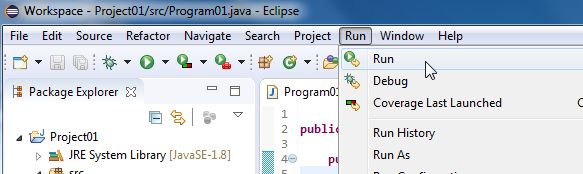




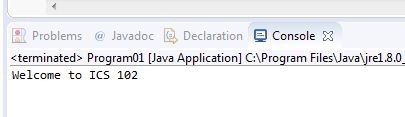
1. If the program has no syntax errors, execute it by clicking the Run button:



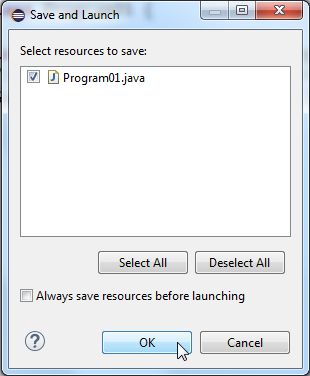
Alternatively, you can execute the program by using the **Run 🡪 Run** menu:



If the program has no run-time errors, it will display its output on the console window:



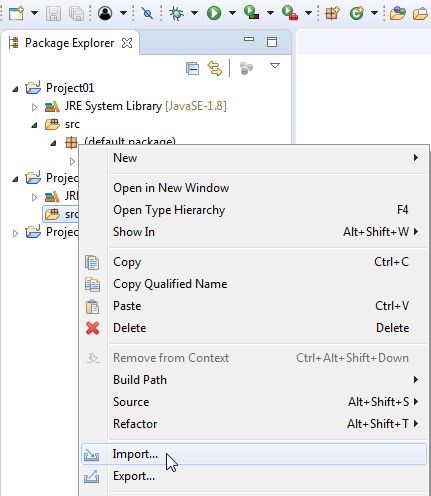
Note: If you execute the program without saving it first, Eclipse will prompt you to do so:



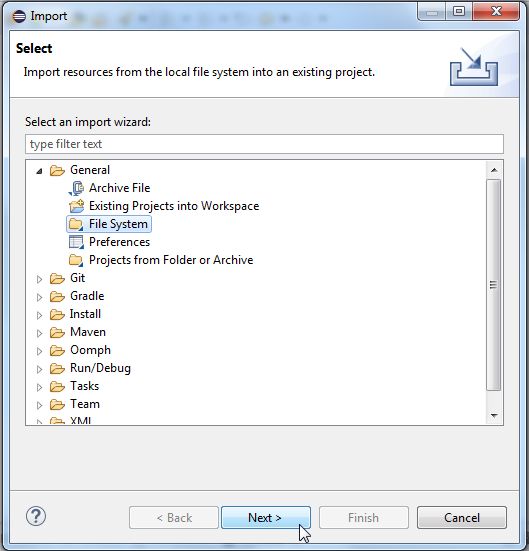
Click the **OK** button.

8. To exit Eclipse, use the menu: **File 🡪 Exit** or just close the Eclipse Workbench window.

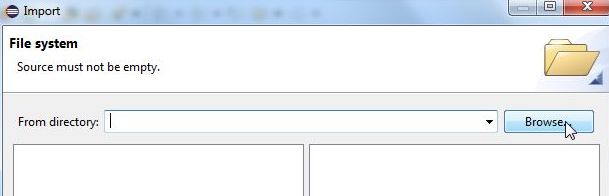
1. **Creating a new Java project from an existing Java file**
2. Create a new Java project as in steps 2 and 3 above.
3. Right-click on the source folder of the project and then click **Import . . .** button:



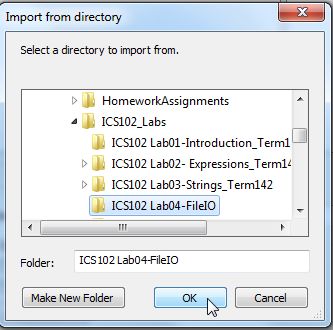
1. Click **General** then **File System** and finally the **Next** button:



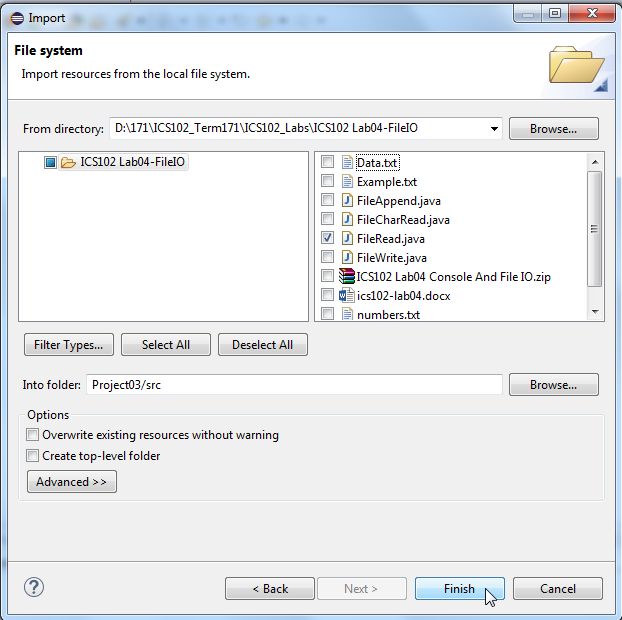
1. Browse to the folder that contains the Java file you want to import



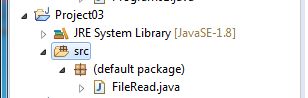
1. Select the folder and click the **OK** button:



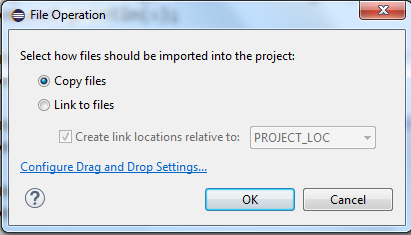
1. Select the source file or source files to be imported and then click the ***Finish*** button:



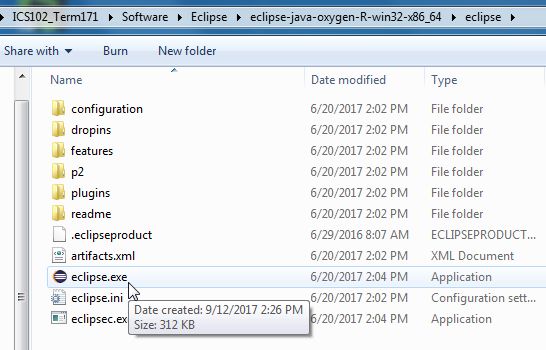
The file or files will be imported into the source folder:



**Note:** You may also import files to a source folder by either physical placing them in that folder, outside Eclipse, or from within Eclipse by dragging them to the source folder. If you drag a file or files to a source folder, Eclipse will prompt you to specify whether new copies of the files are to be created in the source folder or whether the import is by linking:



1. **Opening Eclipse without creating a project**
2. Launch eclipse



1. Click the **Workbench** button:

