# Install the PyDev plug-in for Eclipse

http://www.rose-hulman.edu/class/csse/resources/Eclipse/eclipse-python-configuration.htm

1. Launch Eclipse

1. Launch Eclipse. A screen like this should appear, where you can choose which workspace to open. (If not, go to `File →
    Switch Workspace → Other`)

2.   Screenshots read 'Python 3.1', which is the old version. You will be installing Python 3.2.
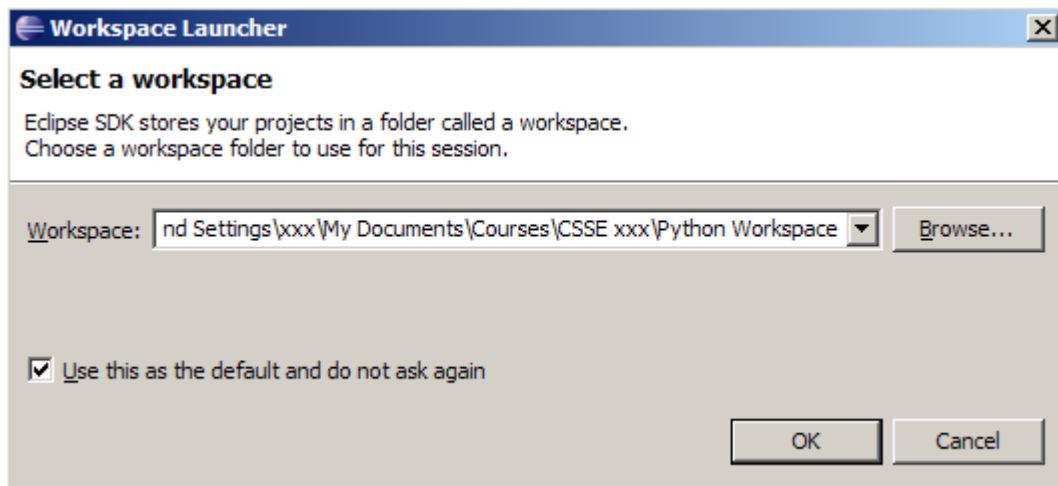
3. Browse the csse120 folder which you created when installing Eclipse. Select "Use this as the default and do not ask again".
    - i. If you do, Eclipse will automatically use this workspace next time you open Eclipse. If you want to change the
      workspace later you can always go to `File → Switch Workspace...` to be sent back to the Workspace Launcher
      window.
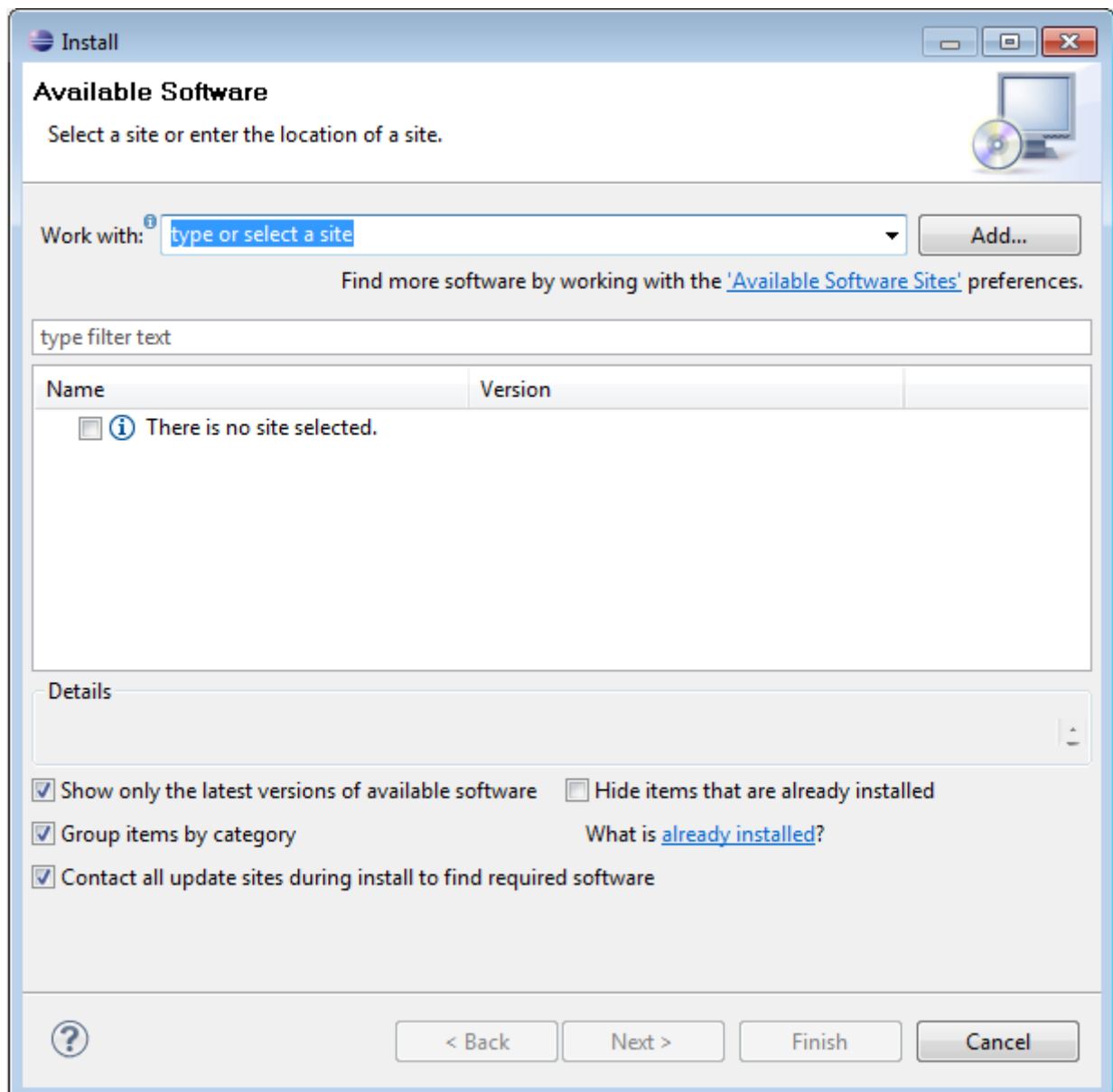4. You should now see Eclipse's Welcome screen:
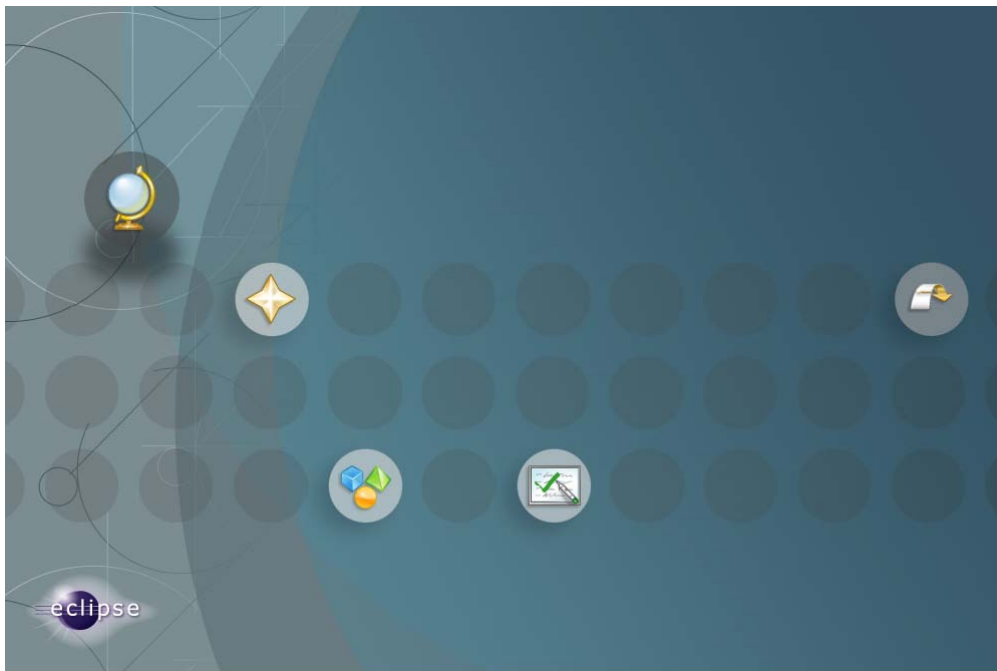
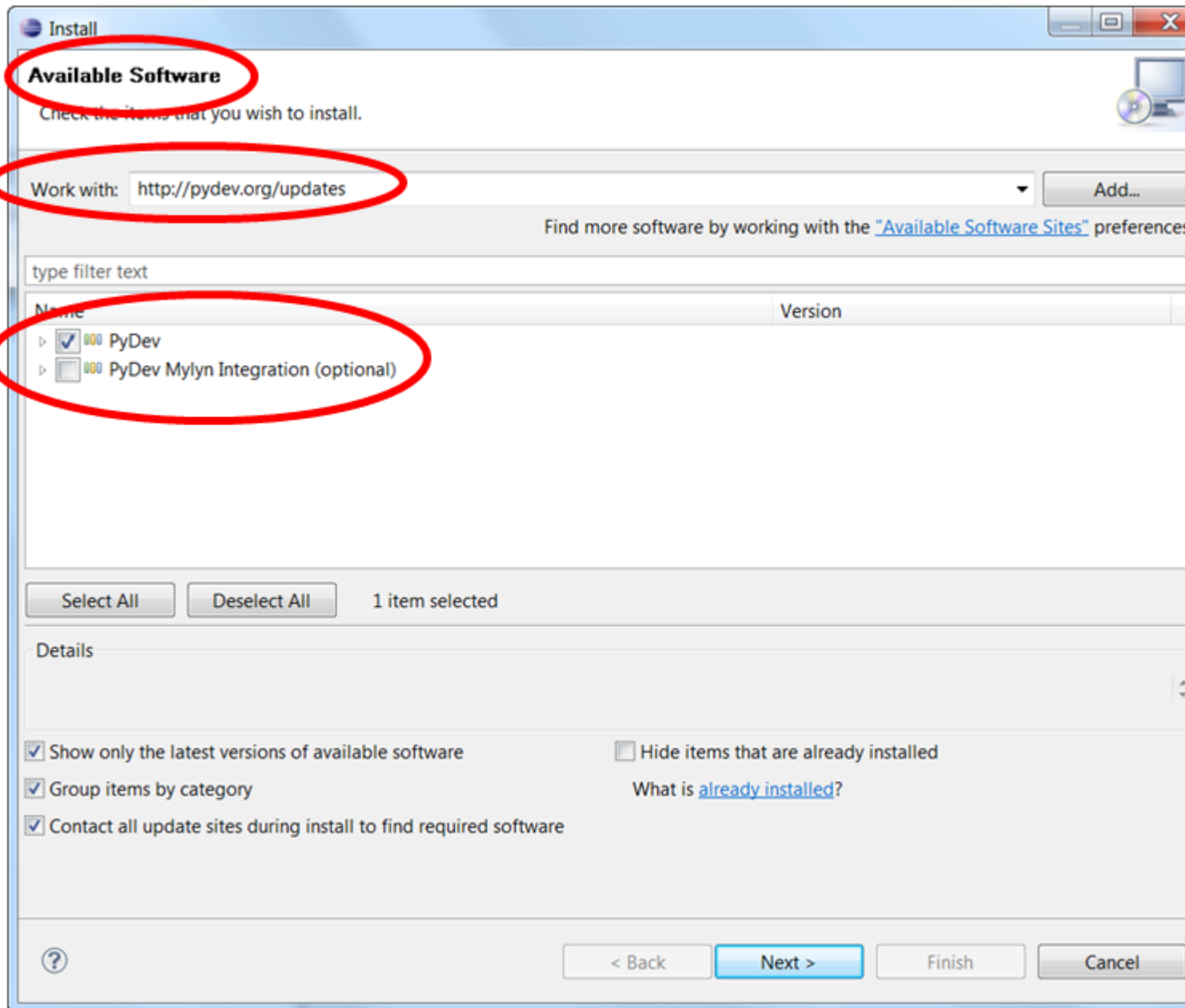Click on the arrow on the right to go to the workbench.
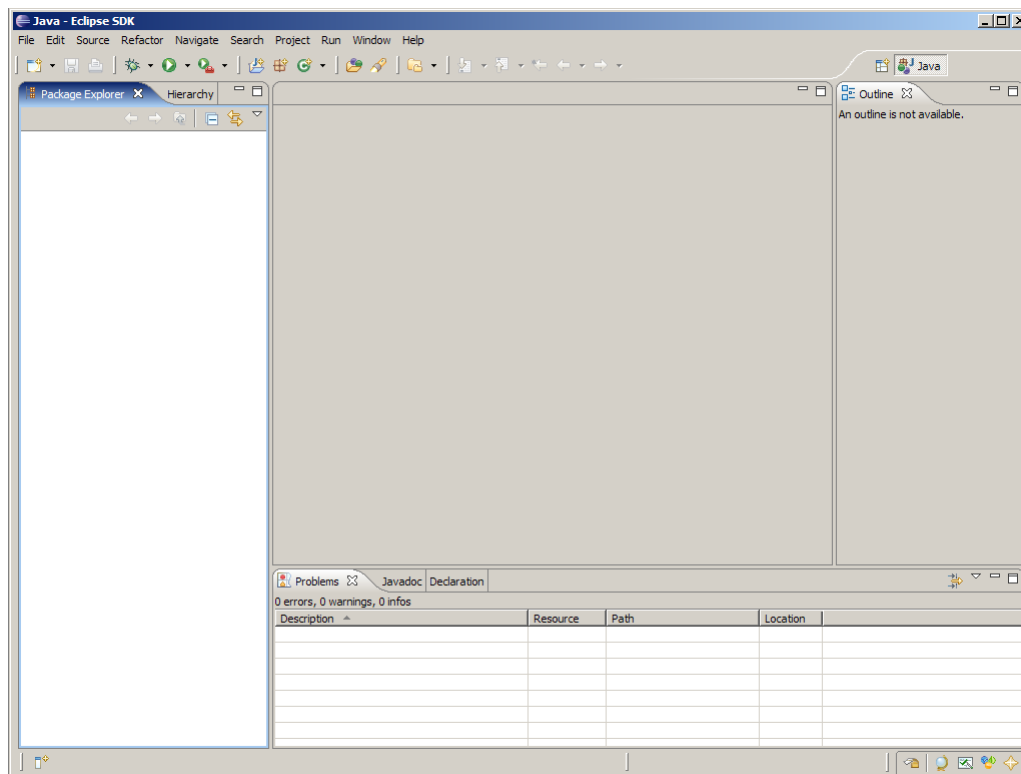
This is where you'll do most of your work in Eclipse.

2. Download PyDev from within Eclipse

1. Go to Help → Install New Software

2. Enter `http://pydev.org/updates` in the `Work with:` field.
3. After several seconds, two options should appear. Select the *PyDev for Eclipse* option. Do <u>not</u> select the "PyDev Mylyn Integration" flag.

4. Click "Next" and "OK" to continue installing PyDev.

5. Select "I accept the terms of the license agreement", then click "Finish". The installer will begin to download the plug-in.

6. *Note: When you see the Selection Needed dialog box, you must manually check the box before pressing okay.* If you do not, it appears that the installation is continuing, but it is not. You must uninstall PyDev, then reinstall.
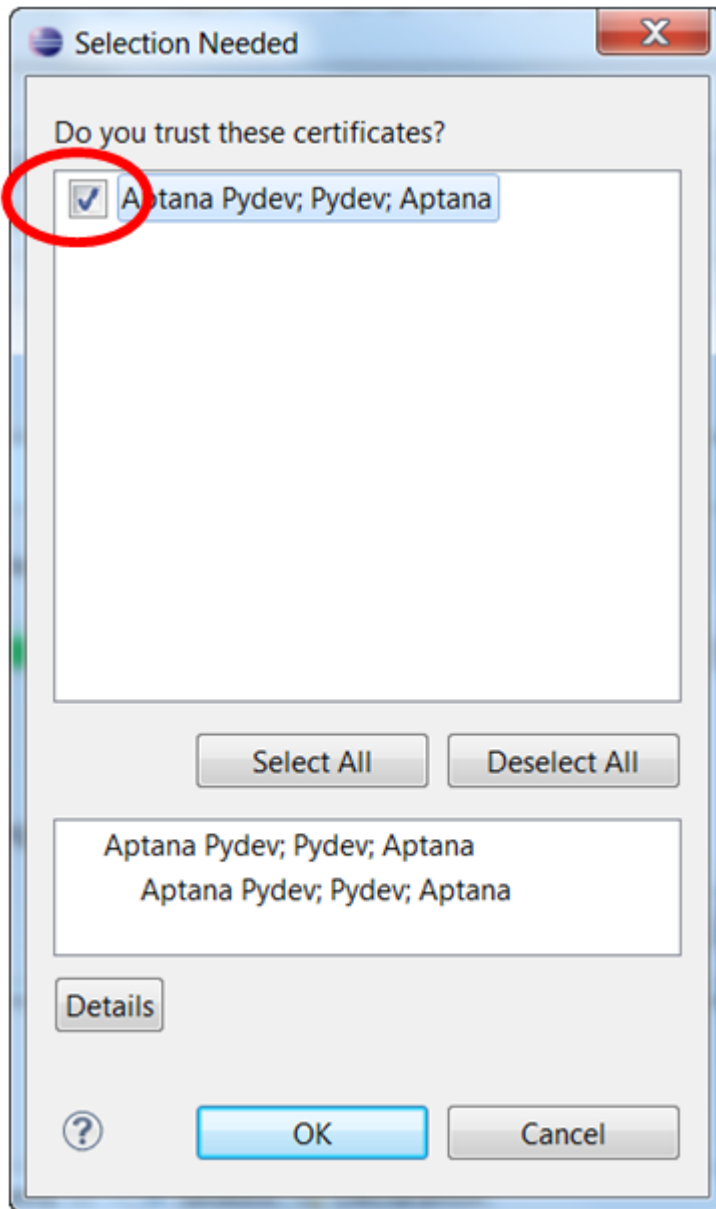
7. A security warning may appear asking whether you trust the software being installed- click "ok", then ensure the correct items are selected and click yes. The instillation process will continue.

8. When the installation is complete, you will be asked if you want to restart Eclipse. Select "Yes". You may see a *Subclipse Usage* dialog, just uncheck the box and continue.
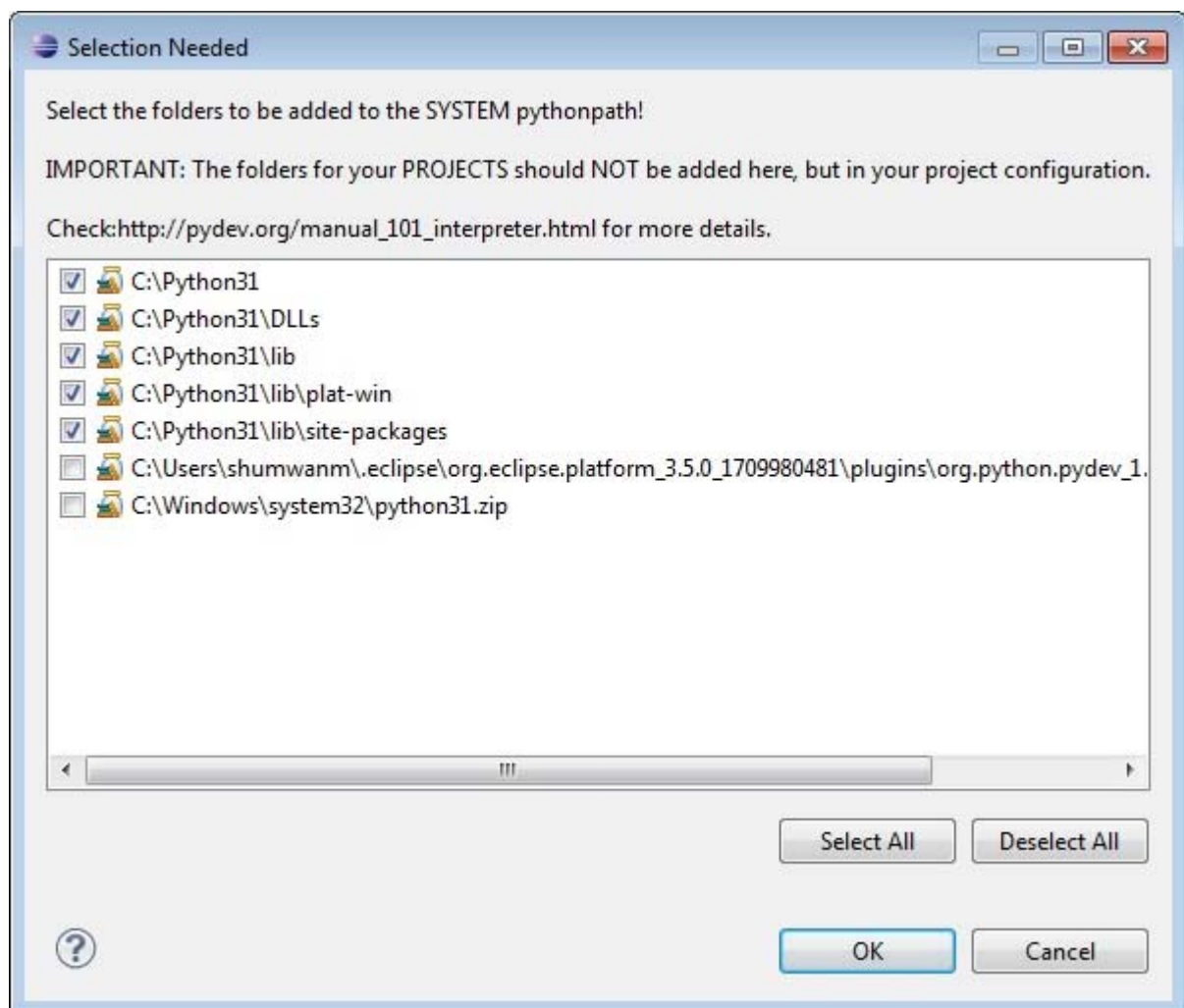
3. Configure PyDev

1. Python must be installed to configure PyDev.
2. Go to `Window → Preferences.` In the Preferences window, expand `PyDev` and select `Interpreter-Python.`
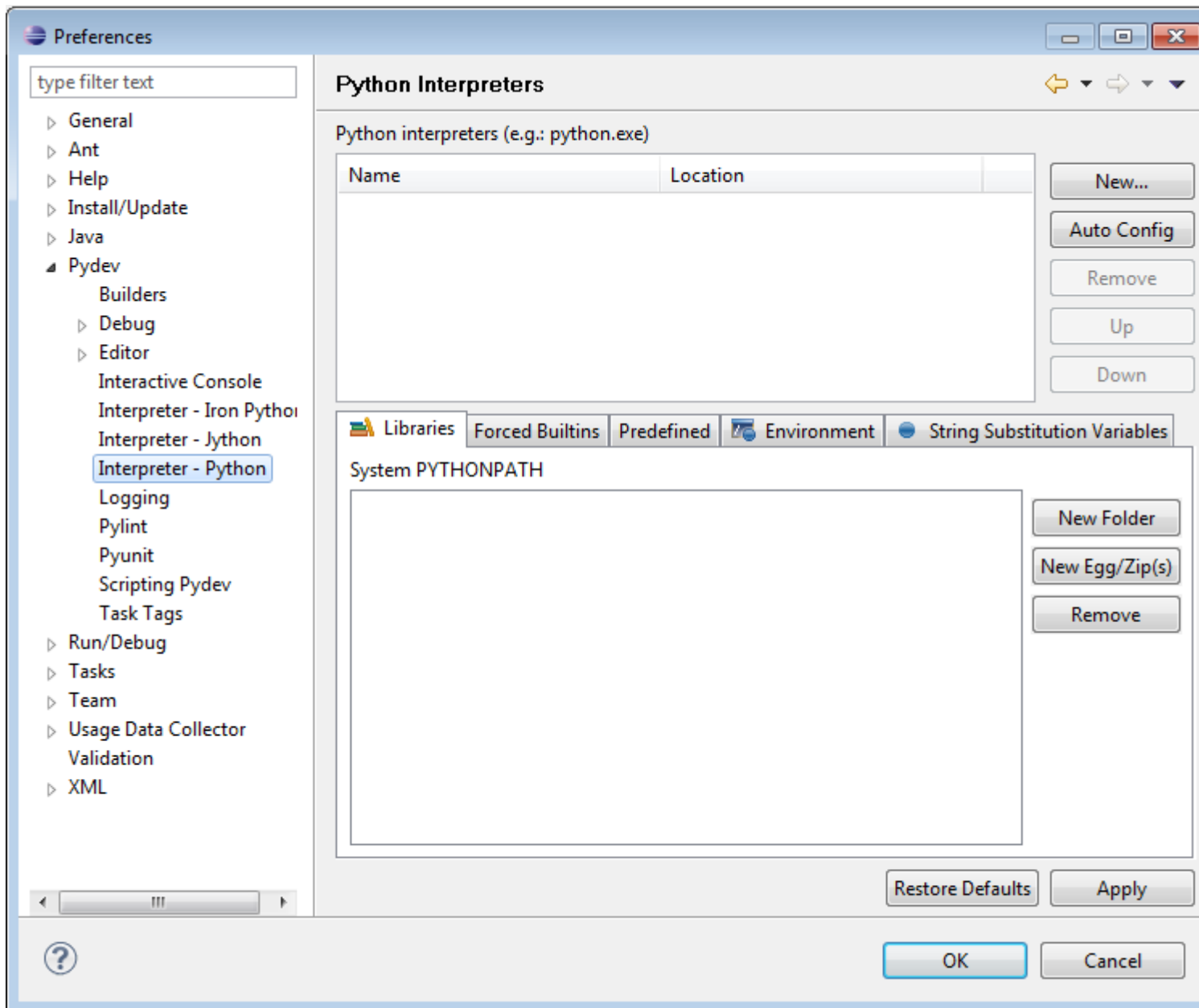
3. Click "New..." and type **Python32** for the Interpreter name. For the Interpreter executable, browse to your copy of Python (`C:\Program Files\Python32\python.exe`), and press Open.
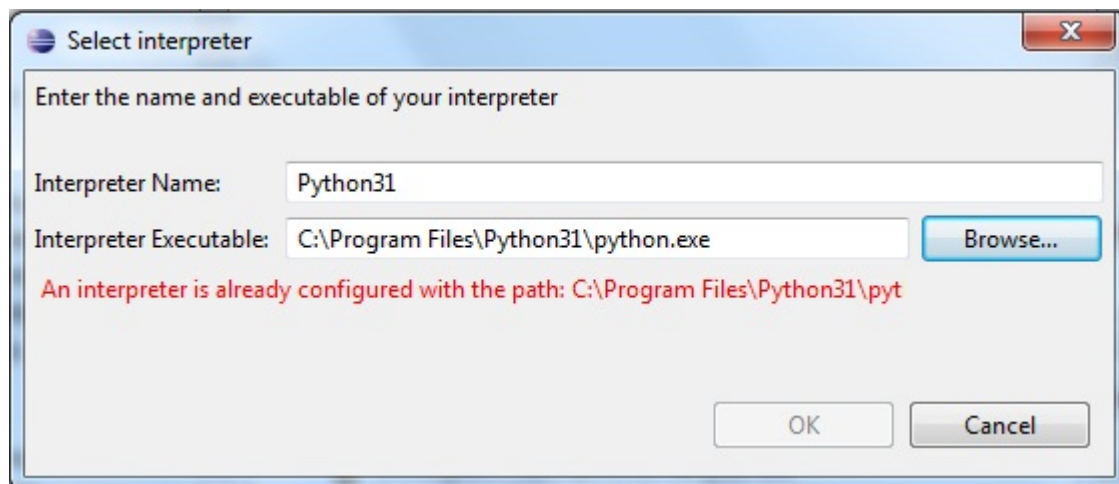
Click "OK" and the *Selection Needed* Window will appear.

4. Select all but the PySrc and python32.zip and click OK as many times as necessary to exit the preferences. The default selection should be fine.

5. The Interpreter is now set up so that the code you write can be interpreted for the computer to run. You are now ready to start running code.

Installing Eclipse Preferences for Python

1. *Download the Eclipse Preferences*

1. Unzip this [Preferences for csse120 file](#), placing its sole unzipped file *(EclipsePreference-2011-06.epf)* in any convenient location (your desktop, My Documents folder, etc).

2. *Import the Preferences*

1. Launch Eclipse.
    - i. If Eclipse offers to Select a Workspace, browse to C:\EclipseWorkspace\csse120.
    - ii. If the csse 120 workspace does not appear automatically, choose `File → Switch Workspace → Other,` and click `Next`.
2. Now you are ready to set the preferences for the workspace:
  - . Choose File → Import
 - i. In the Import dialog box, select General → Preferences and click Next.
 - ii. When the Import Preferences dialog opens, select Browse and find the EclipsePreferences-2011-06.epf file that you unzipped and saved above.
 - iii. Back in the Import Preferences dialog, check Import All, then select Finish.
 - iv. As before, if the Subclipse Usage dialog makes an appearance, uncheck the box and continue.
 - v. Confirm that the installation did not leave behind unintended files by checking if there is:
    - i. random .eclipse folder anywhere, possibly in the folder immediately above My Documents.
    - ii. Any extra users (for example, the installer), in C:\Users
    - iii. Extra Eclipse workspaces anywhere except for the folders inside C:\EclipseWorkspaces.

Writing Your First Python Program

1. *Switch to the Python perspective*

1. Go to `Window → Open Perspective → Other` and choose `PyDev`, then click `OK`. If you look at the upper right corner you will see that the perspective has changed from "Java" to "PyDev".
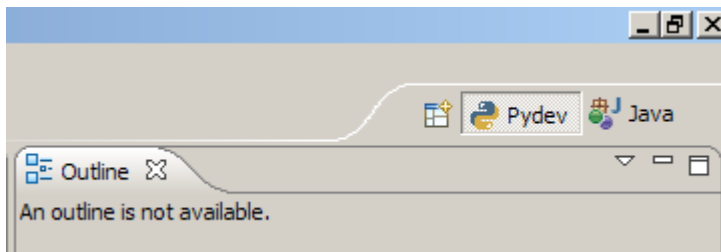
2. Perspectives are designed to have the most useful tools within reach for whatever task you are doing (for example writing Java code or writing Python code). If you look in the `File→ New` menu you will see that there are different options with the different perspective.

PyDev Perspective   Java Perspective

3. As you can see, perspectives greatly affect the look of the Eclipse program.

2. Create a new project

1. Go to `File → New → PyDev Project` to start a wizard.
2. In the next window that appears, enter the name of your project and select "python" and 3.0"; as the type. Make sure "create default 'src' folder and add it to the pythonpath?" is selected. Click Finish.
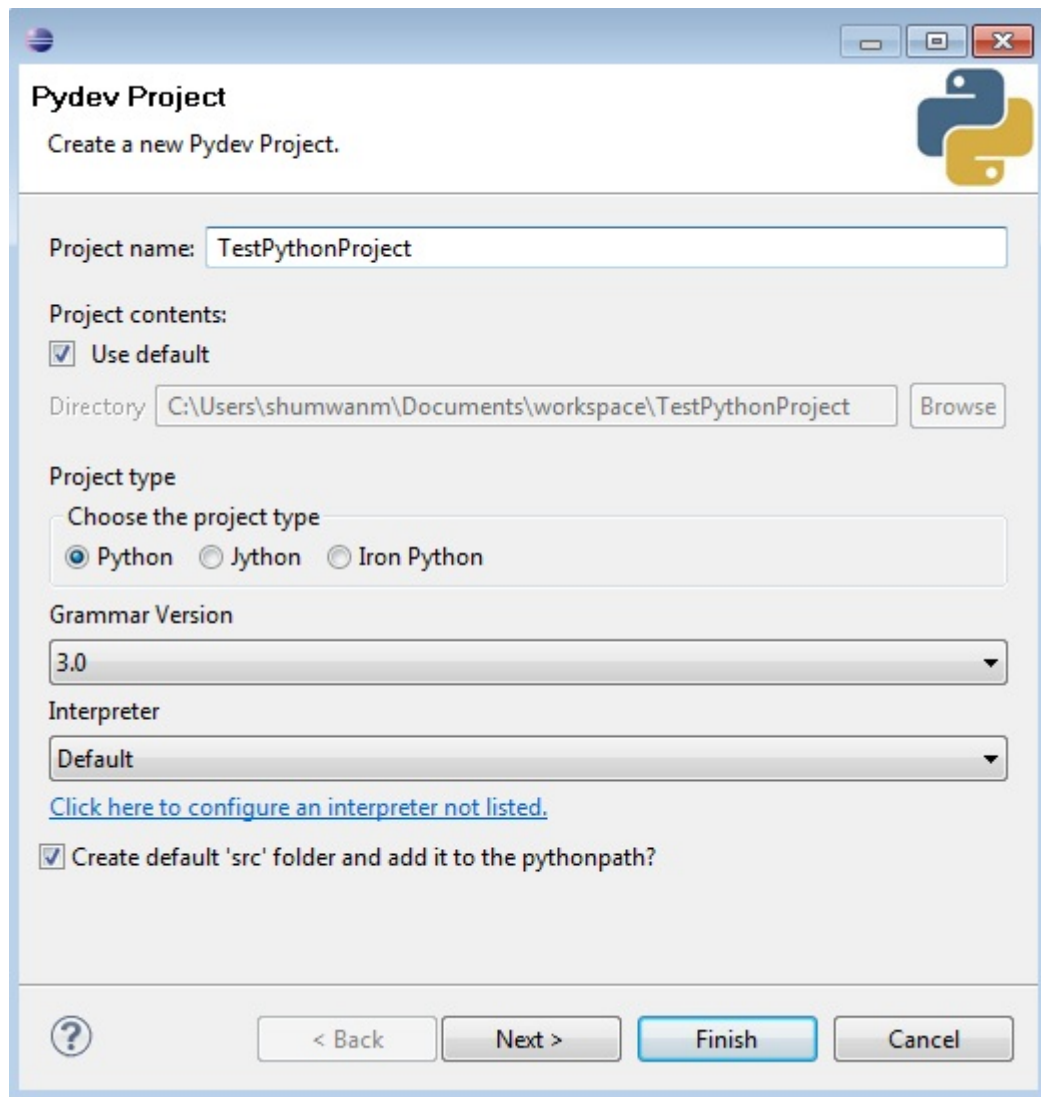
3. If you look at the upper left corner of the workspace (in the Package Explorer view), you should now see your newly created project with a "src" folder inside.
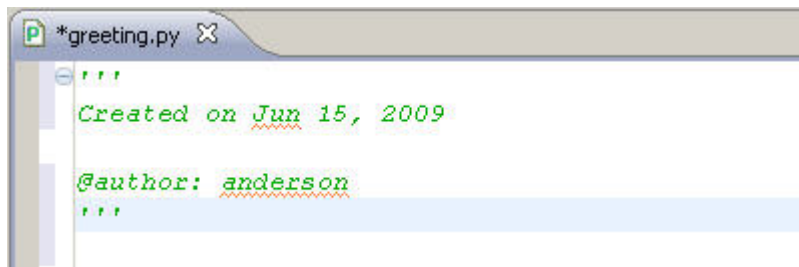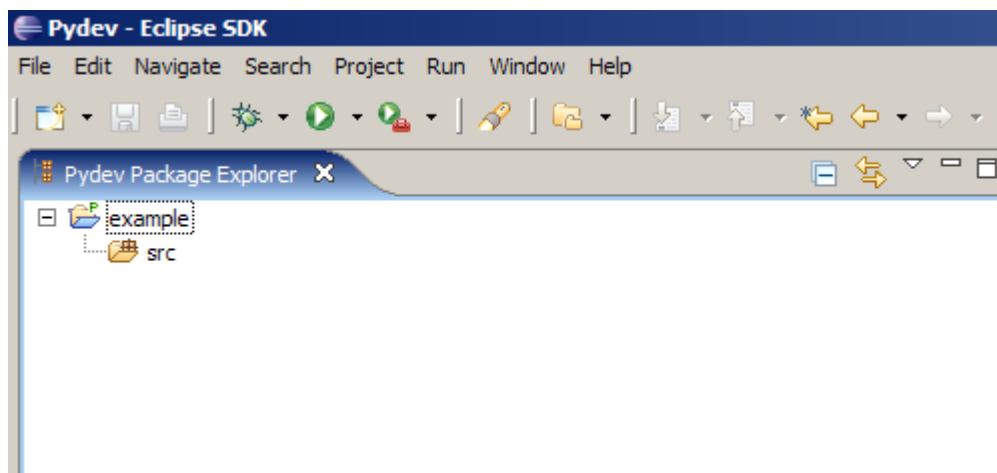

4. Create a new module

1. Select the project you just created and go to `File → New → PyDev Module`. This will launch a new PyDev Module Wizard where you should enter a name for your module and make sure it is in the right location. Leave the Package field blank and select Finish.
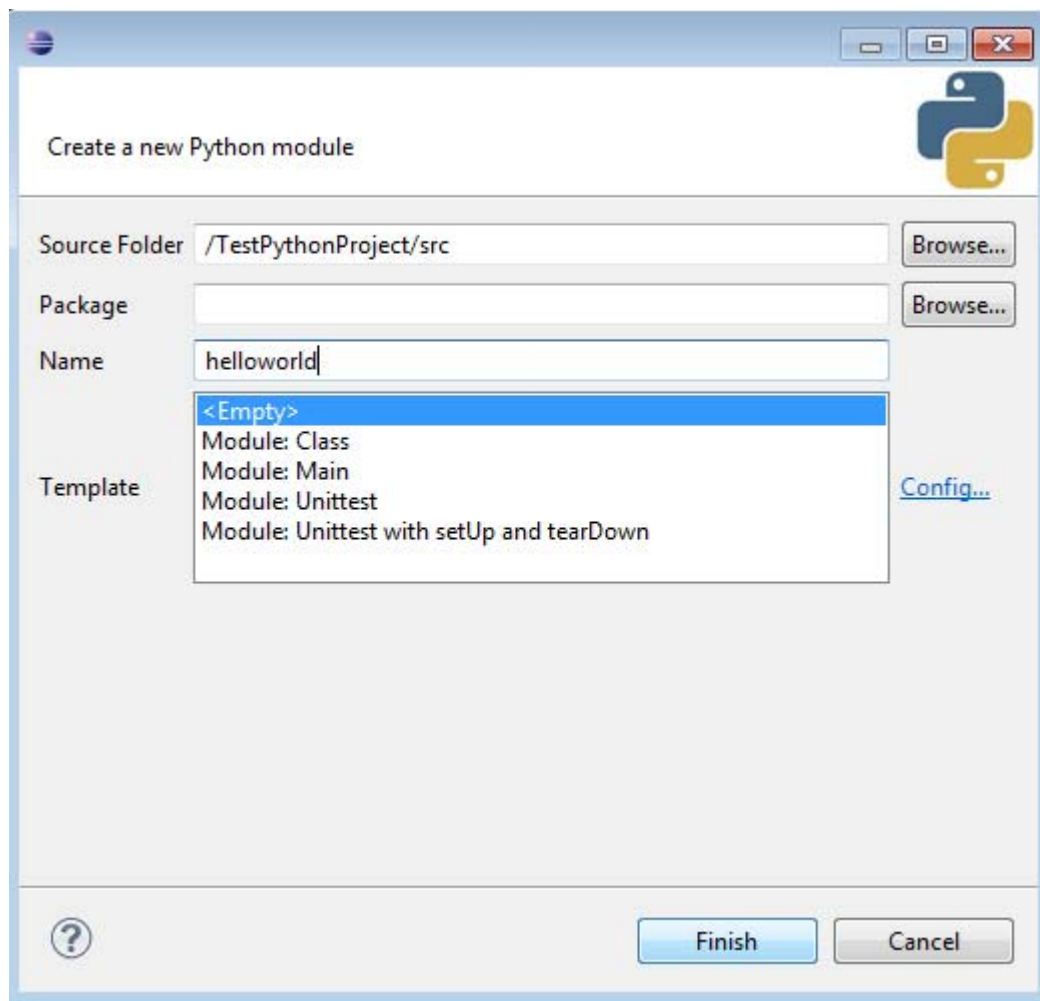
2. Look in the Package Explorer view and you will see an icon of your new file inside the src folder, which Eclipse created when you made the new project before.
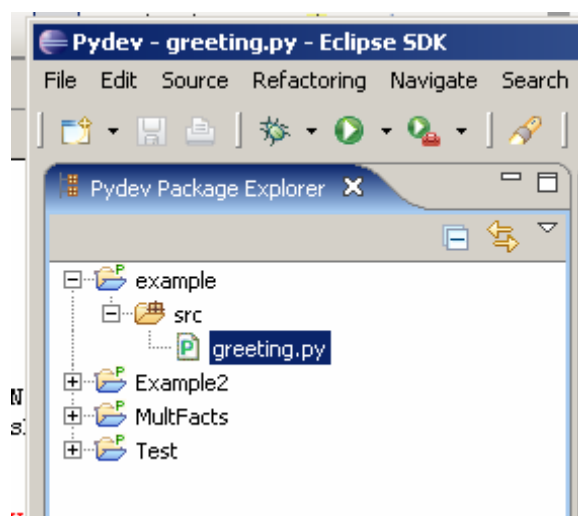
The file should be opened in the open space in the center of the workspace-the *Editor* view. (If not, right click on the greeting.py icon and select Open.) You will see a tab with the name of your file.
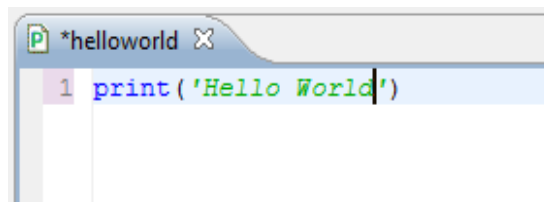
```
P *greeting.py ⊠
    '''
    Created on Jun 15, 2009

    @author: anderson
    '''
```

5. Write and run the program

1. Here's a program to greet the world. Simply type `print('Hello, World!')` into the file. You may remove the default doc comment or leave it there; Python ignores it.
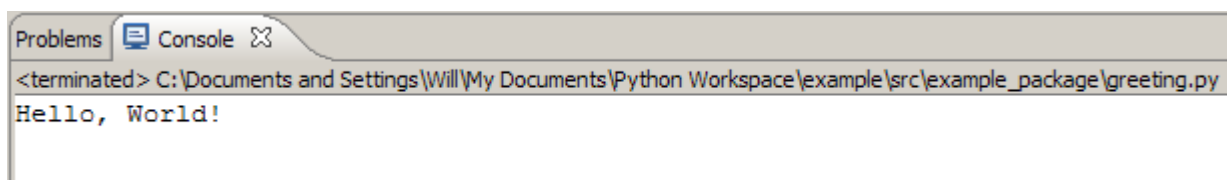


```
P *helloworld ⊠
1 print('Hello World')
```

2. Right click on the file and select Save (or press Ctrl+S) to save the file.

3. Finally, choose the greeting.py icon, and go to `Run → Run As → Python Run` to run your program.

   (A quicker alternative is to right-click on the greeting.py icon, and select `Run As → Python Run`, or press Ctrl+F11.)
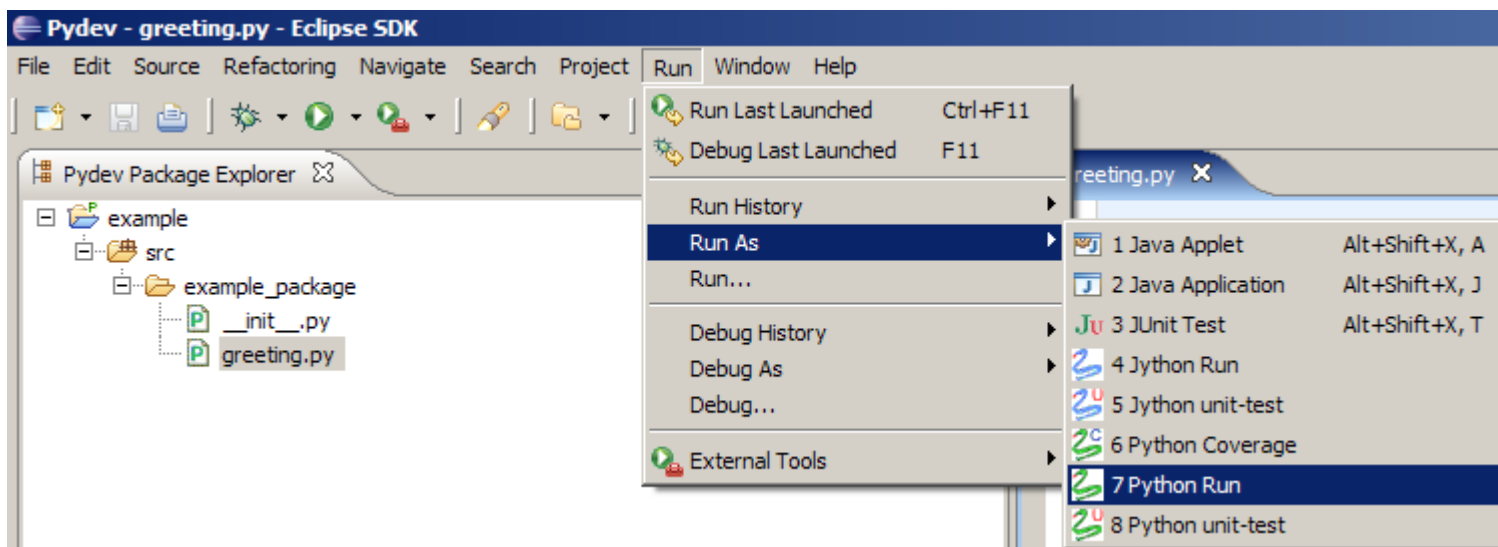
4. Look at the bottom of your screen at the *Console* view and you will see the message you told the computer to print.


```
Problems  🖳 Console ⊠
<terminated> C:\Documents and Settings\Will\My Documents\Python Workspace\example\src\example_package\greeting.py
Hello, World!
```

Congratulations! You have written your first program with Python.

Configure PyDev for Productivity

1. Add line numbers

1. Add line numbers by right-clicking in the margin at the left side of the code view and click on **Show Line Numbers**.

2. Change the comment color to one you can read more easily

1. Go to Window → Preferences. Open PyDev and select Editors (actually click on 'Editors', don't just expand it). In the Appearance Color Options dropdown menu, select Comments. Then change it to a brighter color (perhaps fuchsia?).
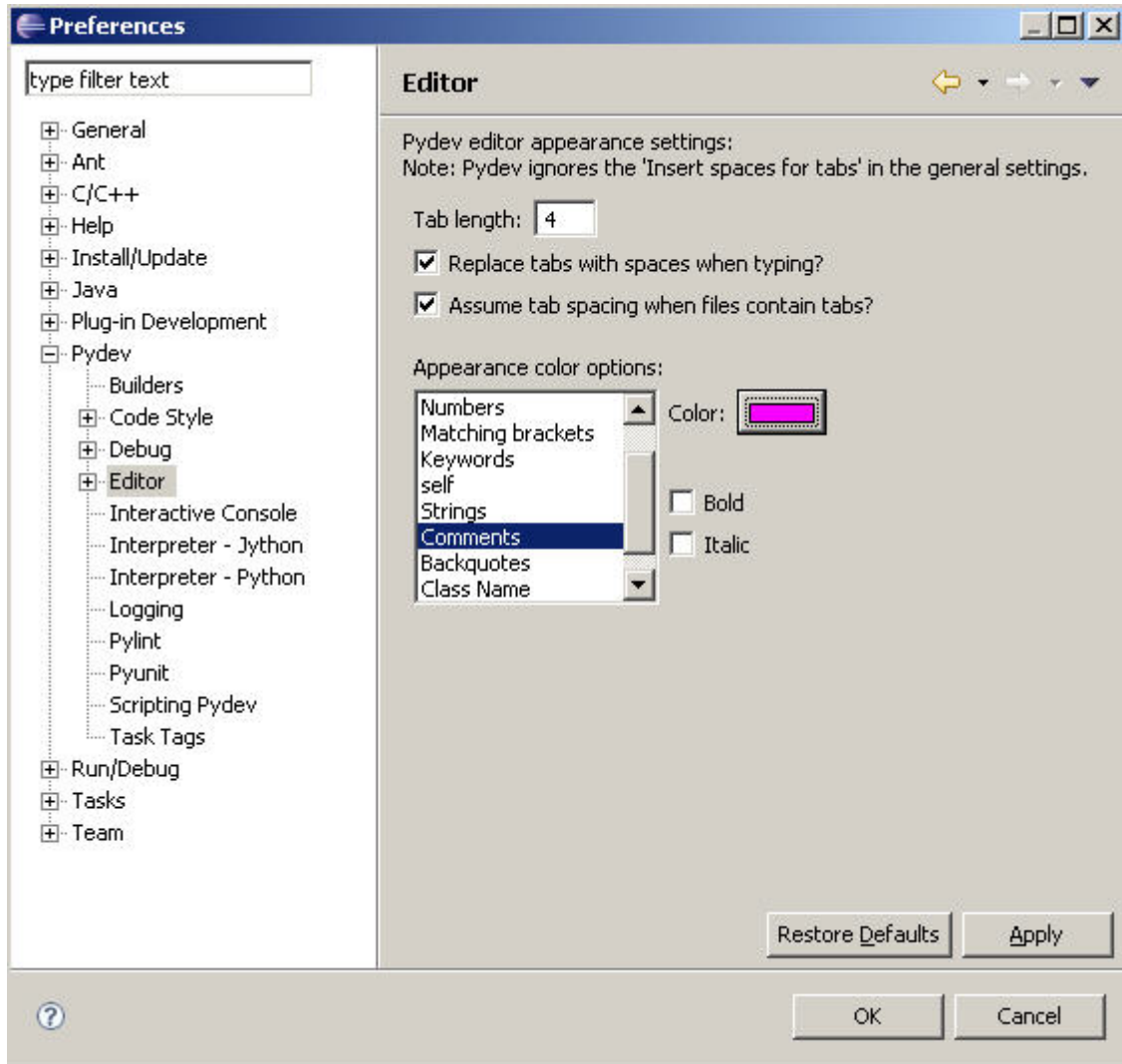
3. Turn on Task view to show TODO: items and add a CONSIDER: tag

1. Go to `Window → Show View → Tasks`.

2. `Window → Preferences → PyDev → Task Tags`, and add CONSIDER: to the end of the list.

3. To get the task tags to show, run the program once, or select `Project → Clean`