

Windows Python Environment Install and Setup

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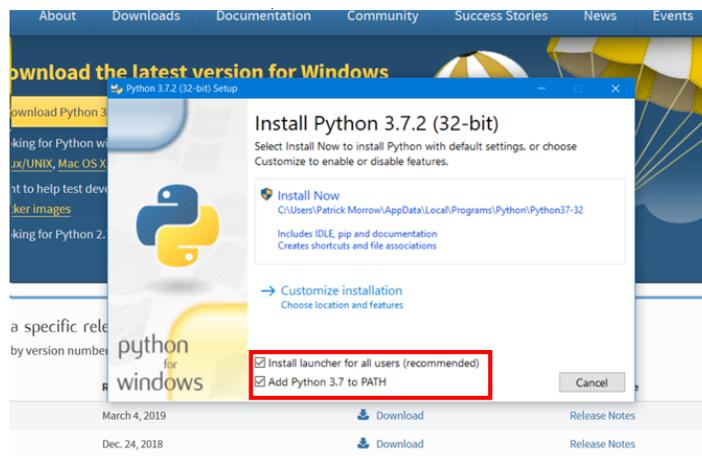
If you already have python installed on your computer, I recommend getting the latest. Some programs that will work on old versions of python will not work on the new versions. The web grader uses the newest version so to avoid issues, the latest version is recommended.

Step 1: Download and Install Python

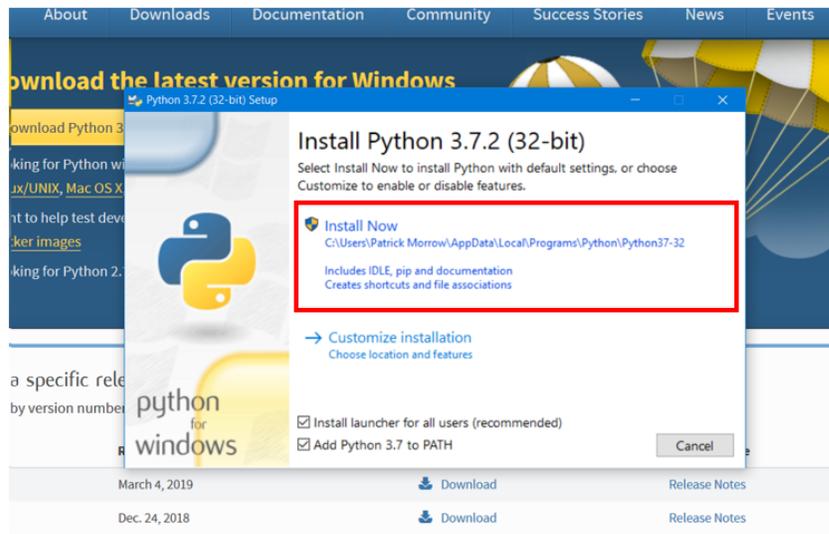
1. Download the latest python version from here: <https://www.python.org/downloads/> (**Note:** At the time this tutorial was made, the latest was 3.7.2. You can download the latest version or use any version that works for you.)



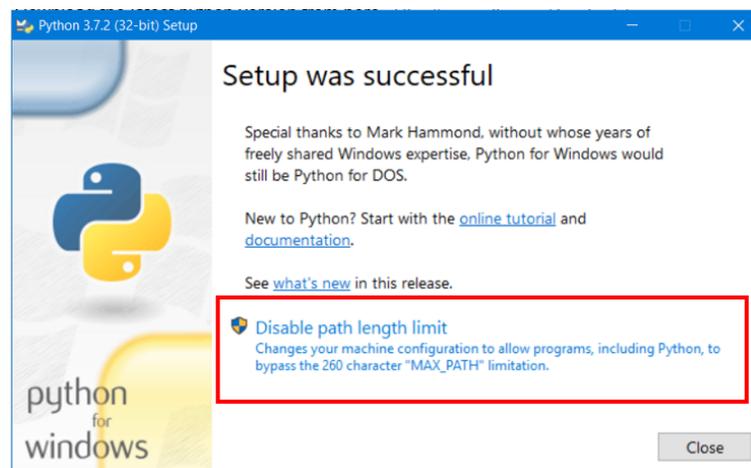
2. **Install for all users and add to path** - Make sure both boxes are checked.



3. **Install** - Click "Install Now"



4. **Disable path length** - Make sure you disable the path length limit. If python was installed in a directory with a path length greater than 260 characters, adding it to the path could fail.



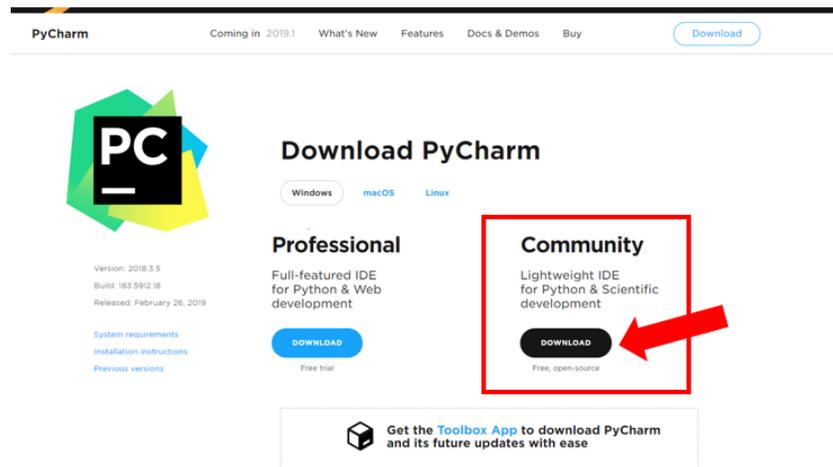
5. Close the window.

Step 2: Download and Install PyCharm

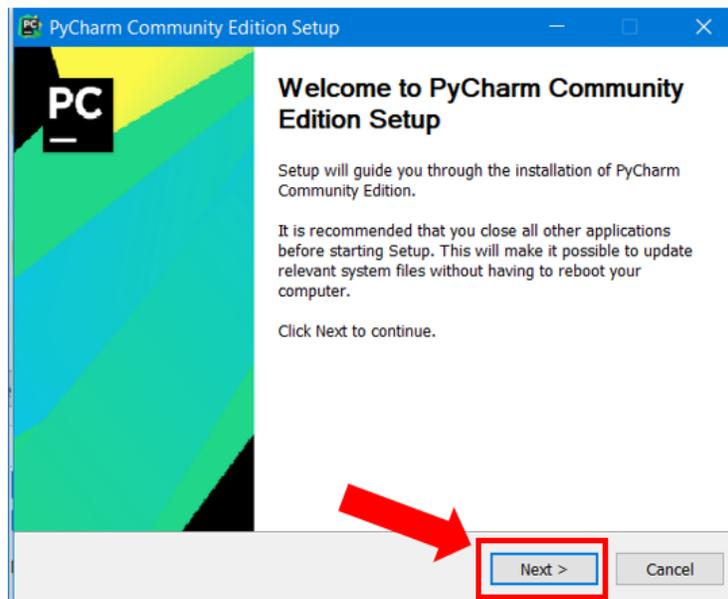
1. Download PyCharm from here:

<https://www.jetbrains.com/pycharm/download/#section=windows>

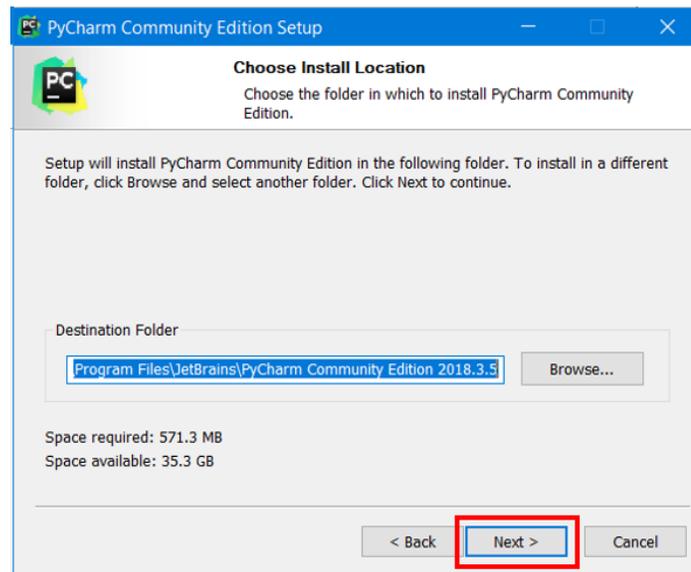
2. **Download** – Choose the Community version and click “download”. After the installer downloads, open the installer.



3. **Start the installer** – Click next to continue

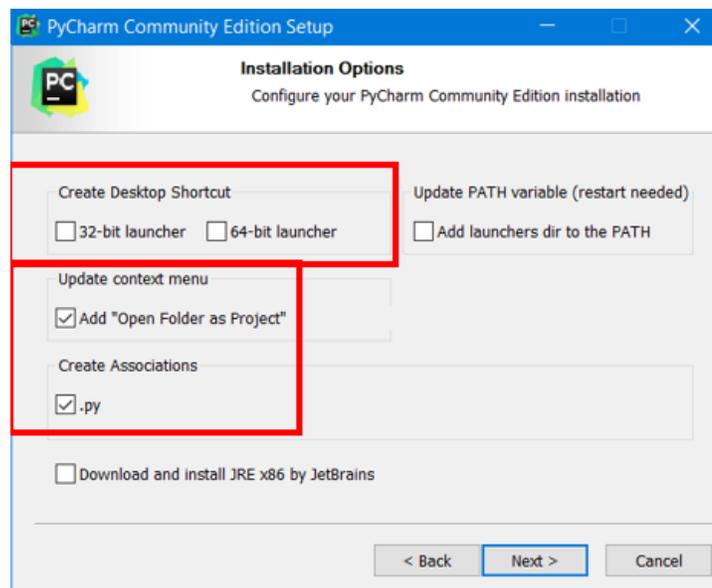


4. **Continue the installer** – Click next to continue

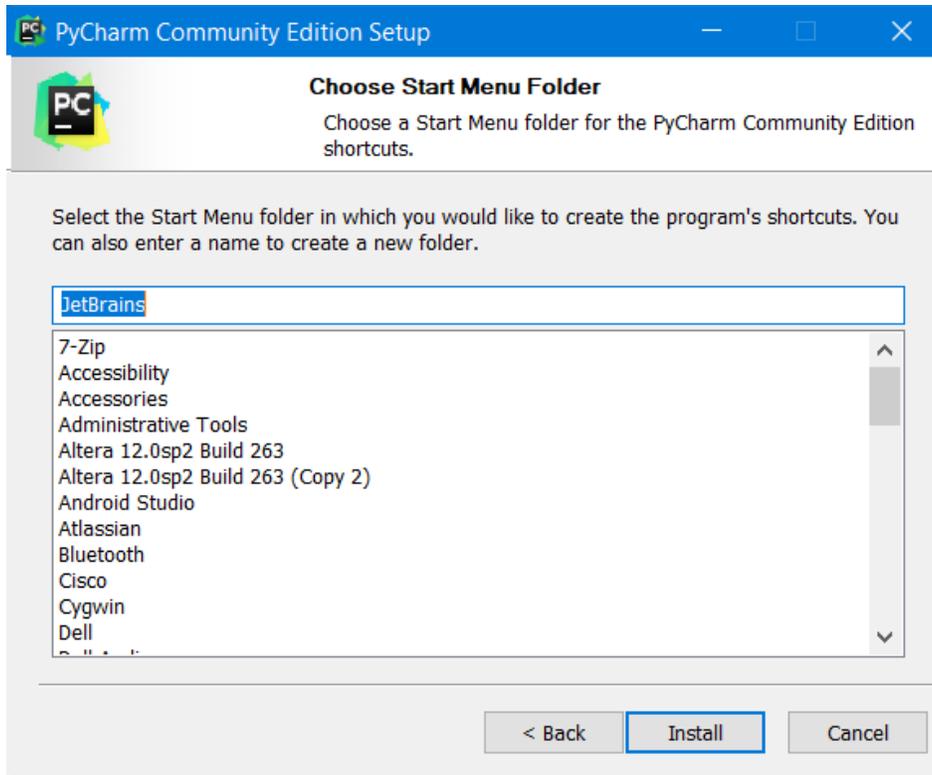


5. **Create desktop shortcut and create association** – If you would like a PyCharm desktop shortcut, you can add it here. You may or may not have a choice between a 32-bit or 64-bit launcher. If there is only one option, then choose that option. Otherwise, you can figure out which is best for your computer by following this short guide: <https://www.howtogeek.com/howto/21726/how-do-i-know-if-im-running-32-bit-or-64-bit-windows-answers/>

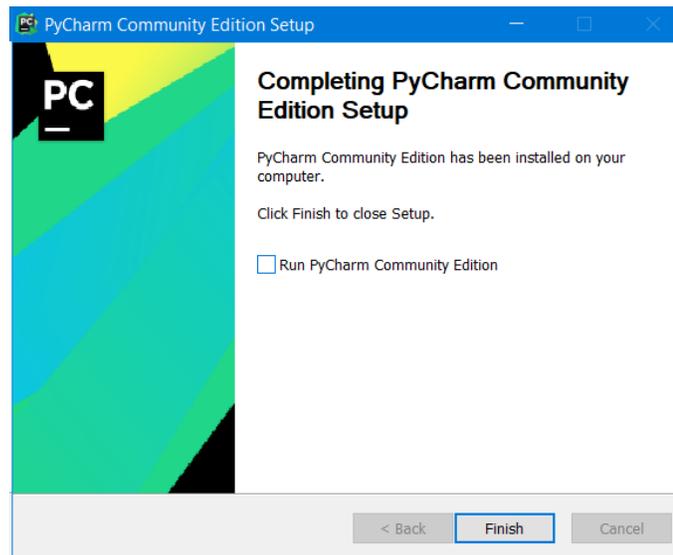
Additionally, I recommend creating an association so all .py files will open with PyCharm. Also, check “Add ‘Open Folder as Project’”



6. **Install** – Click Install

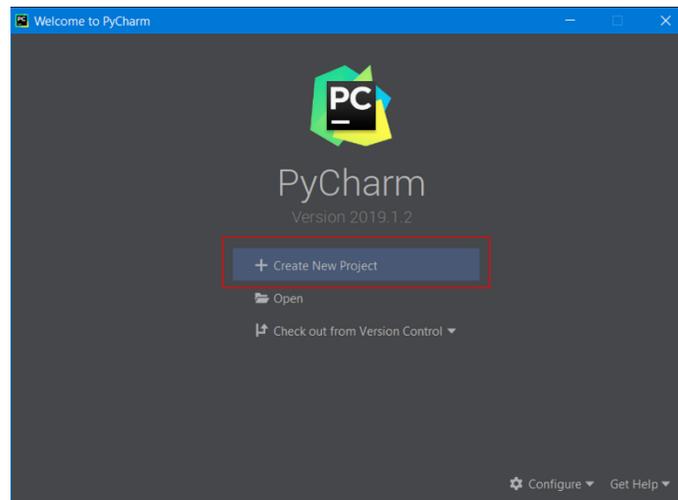


7. **Finish** – Click Finish

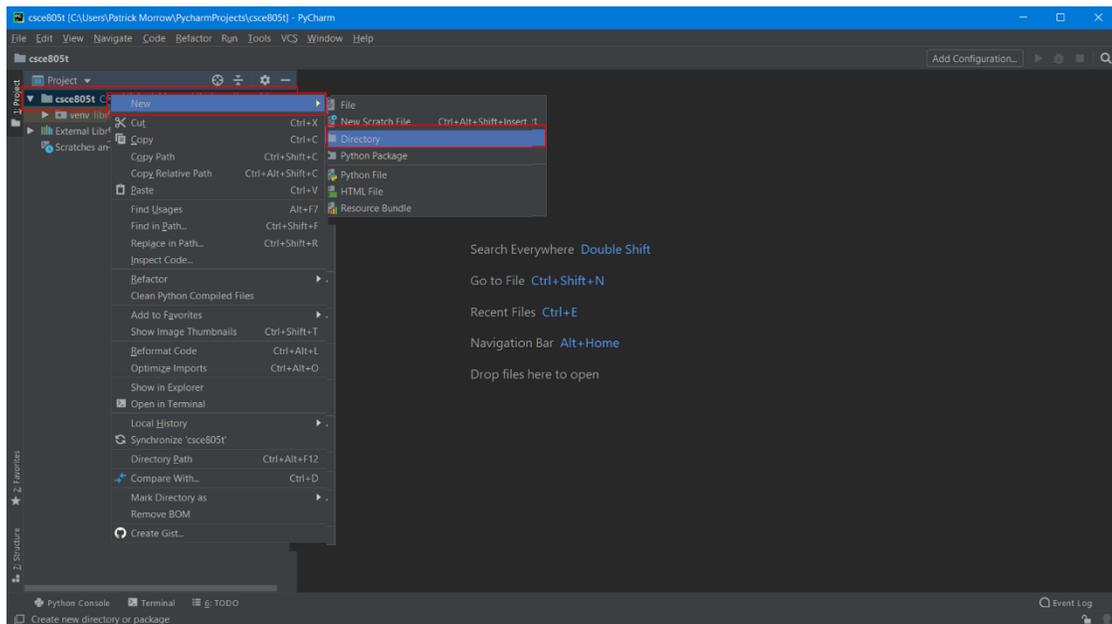


Step 3: **PyCharm Setup**

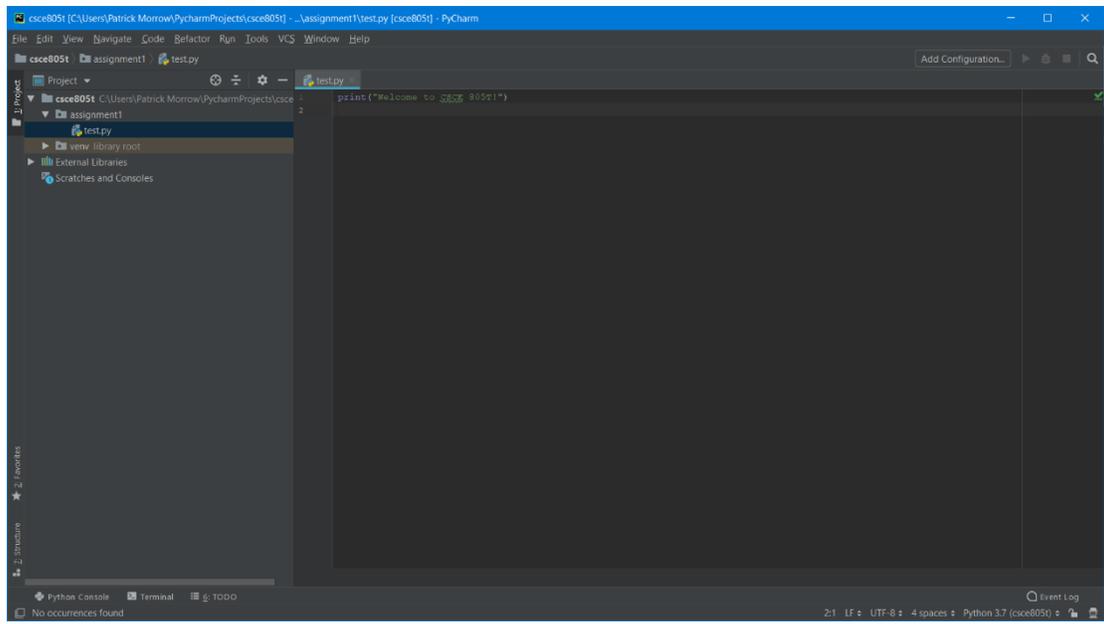
1. Open PyCharm and Create a New Project.



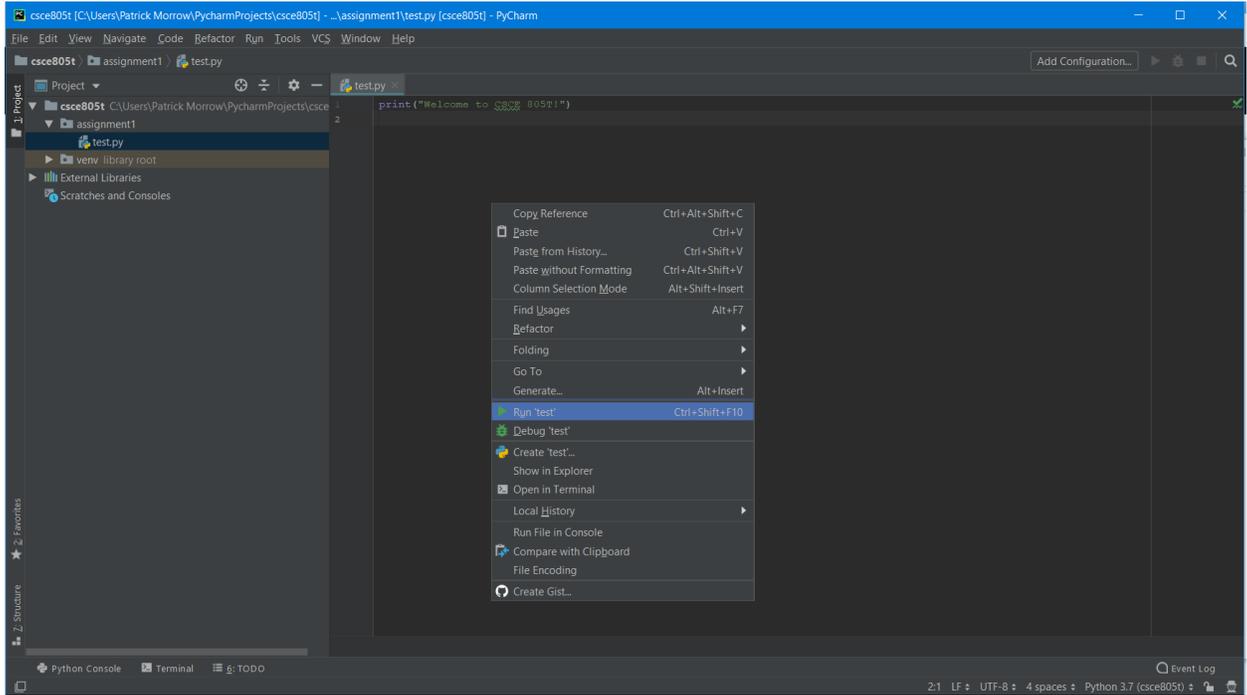
2. Name the project “csce100” and make sure the base interpreter is set under the Project interpreter dropdown. Then, click “Create”.
3. To get yourself ready for the first assignment, right click on the project, hover on New, and select Directory. Name the new directory “assignment1”.



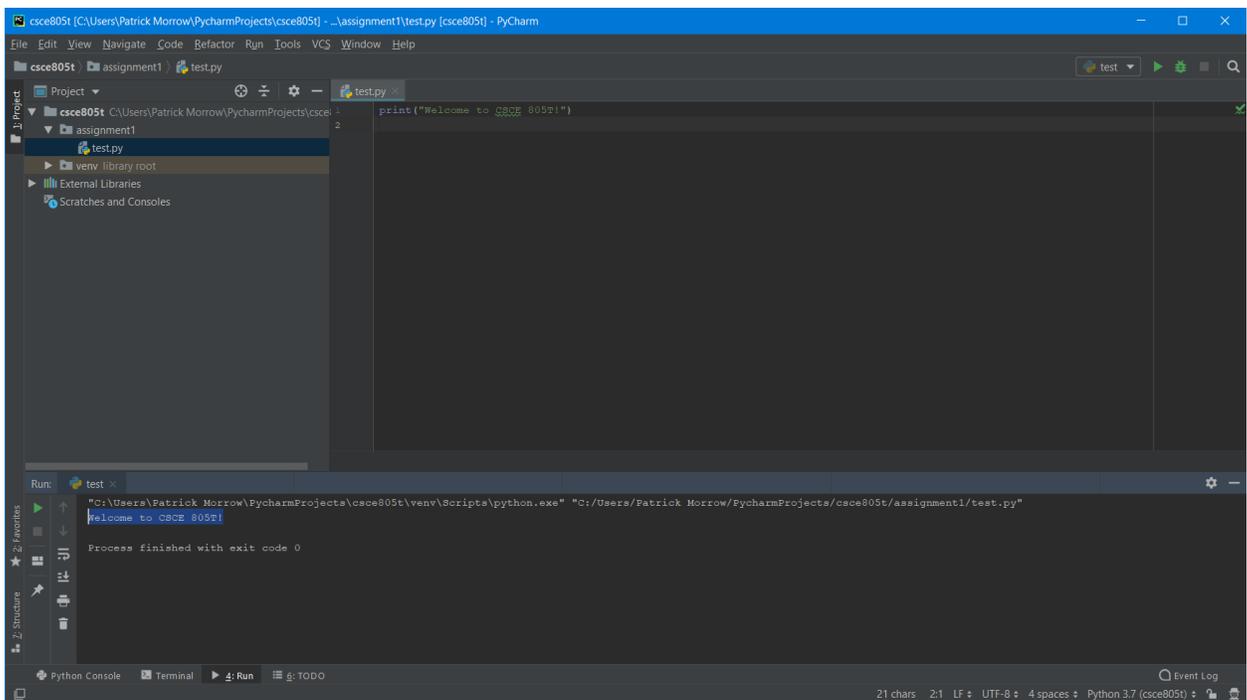
4. Download the test.py file from canvas under Files → “Python Installation Instructions”.
5. Move the test.py file to your new “assignment1” folder and open the file in the PyCharm editor.



- To make sure that everything is set up correctly, run the test.py file. To run the file, right click in the editor window and select “Run”



- You should see “Welcome to CSCE 100” in the run window.



I recommend playing around with PyCharm and getting familiar with the IDE (Integrated Development Environment). Google “PyCharm instructional guides”, watch YouTube videos on using PyCharm, etc. If you run into any issues, feel free to email me and I will work with you to resolve any issues. My email is: pmorrow@cse.unl.edu.