

Assignment 1

In this assignment, you'll install the software, and the development environment required for this course and run a couple of practices.

Step 1: Install Anaconda on your computer.

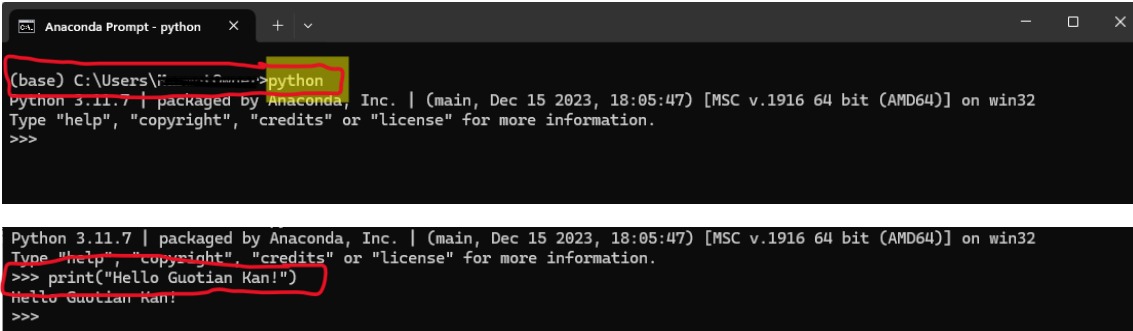
Note that I only use PC with Windows. If you are using a Mac computer, you can download and install Anaconda for Mac. However, Mac has a different installation process and since I have no access to a Mac computer, you may have limited support from me for Mac installation. Many tutorials are available online for installing Anaconda and Python on Mac. One possible solution is to run PC on a virtual machine. For example, you might want to follow the additional steps in this video to set up a Windows environment on Amazon EC2 and install and run the Anaconda for PC version on the virtual machine.

<https://youtu.be/8Z27ZlmkWII>

You can download the current version of Anaconda from <https://www.anaconda.com/>.

The installation itself is rather straightforward using all default settings. For more information, see: <https://docs.anaconda.com/anaconda/install/windows/>. You can also find more tutorials and videos on how to install the software from the Web.

Step 2 (1 point): Locate the install Anaconda3 folder from your Start Menu, and click on "Anaconda Prompt(Anaconda)". Start the Python interpreter by typing "python" at the prompt. Within the python environment, run the `print("Hello World!")` statement but change the word "World" to your own name. Make a screen snapshot of the window and it should look like:



```
Anaconda Prompt - python
(base) C:\Users\...>python
Python 3.11.7 | packaged by Anaconda, Inc. | (main, Dec 15 2023, 18:05:47) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
Python 3.11.7 | packaged by Anaconda, Inc. | (main, Dec 15 2023, 18:05:47) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> print("Hello Guotian Kan!")
Hello Guotian Kan!
>>>
```

Save the screen snapshot to a file. This will be the first file you need to submit for you Lab Exercise 1.

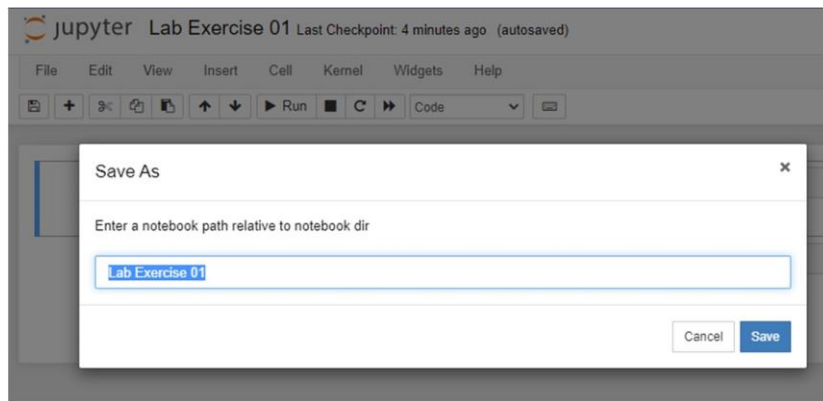
Step 3: Setup Jupyter Notebook. Make a new folder on your computer (or virtual machine) to keep all your work for this class. Change the working folder of your Jupyter Notebook by following the instructions given in the class (and the slides).

Step 4 (1 point): Test-run Jupyter Notebook. Start Jupyter Notebook. Run the `print("Hello World!")` statement but change the word "World" to your own name in a cell. Make a screen snapshot of the cell and the result. Your screen snapshot should look like:

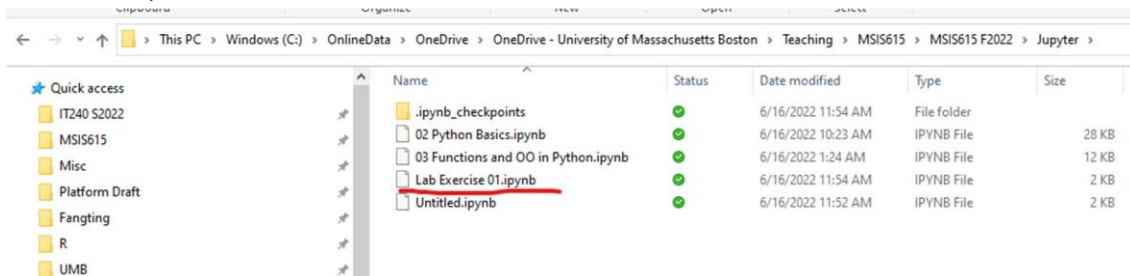
```
print("hello Wei Zhang!")  
hello Wei Zhang!
```

Save the screen snapshot and this is the second file you need to submit for this lab exercise.

Step 5: Save your work with Jupyter Notebook. Save your work and name it. Quit Jupyter Notebook.



Step 6 (1 point): Verify your saved work. Open file explorer, browse/navigate to the folder you made in Step 3 where you are supposed to save all your work. Verify if the work you saved in Step 5 is indeed there:



The .ipynb file that you just saved will be the third file you need to submit for this lab exercise.

Step 7 (2 points): Reload your work with Jupyter Notebook. Restart Jupiter Notebook. Find the work you just saved from the list on the homepage.

Make a screen snapshot of the list and save it to a file. This will be the fourth file you need to submit for this lab exercise.



You can reopen your work by double-clicking on the file name so that you can continue play with it.

To be submitted: 4 files in total. Screen snapshots from Step 2, 4, 7 and the *.ipynb* file from Step 6.