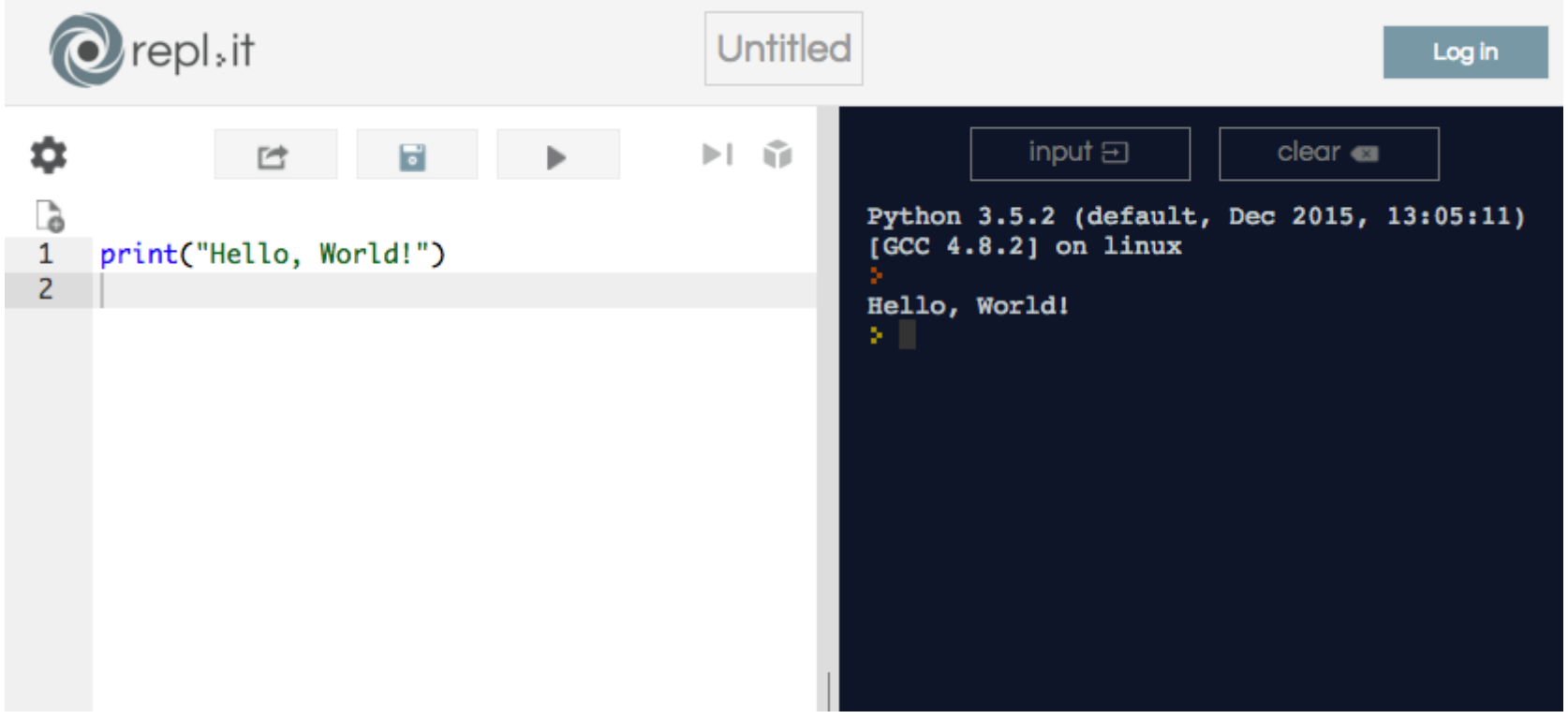
Python Installation Guide

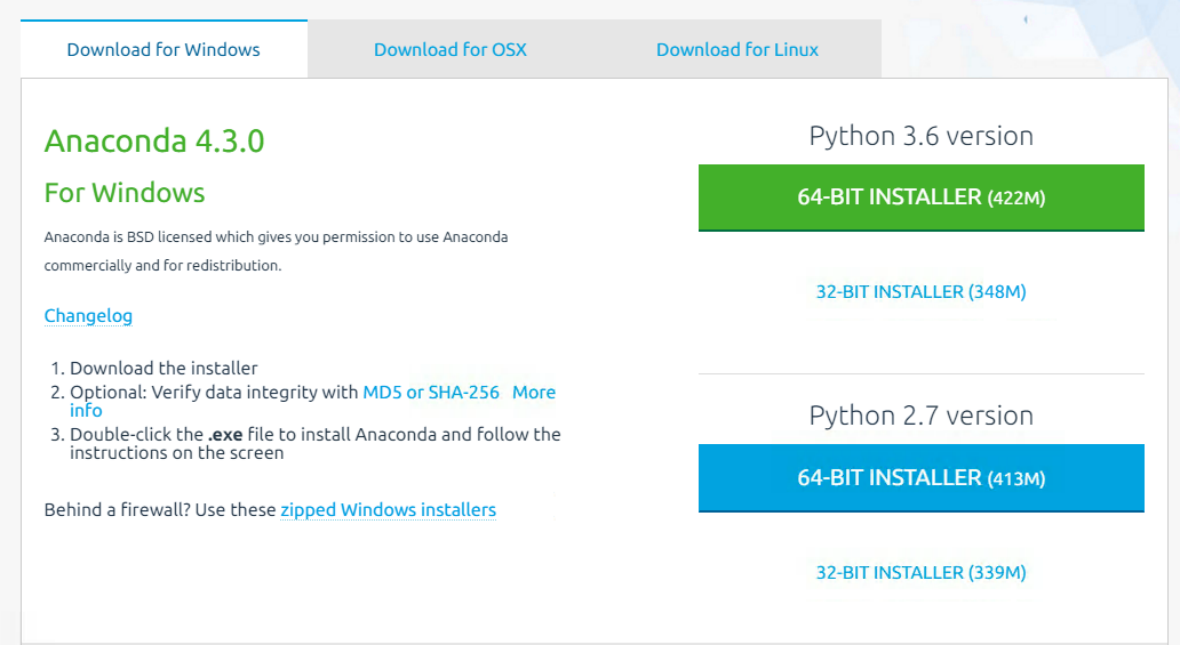
repl.it

- https://repl.it/languages/python3



Install Python using Prepackaged Distribution (Anaconda)

- Anaconda ("Anaconda Distribution") is a free, easy-to-install package manager, environment manager, Python distribution, and collection of over 720 open source packages with free community support.
- https://www.continuum.io/downloads



Miniconda

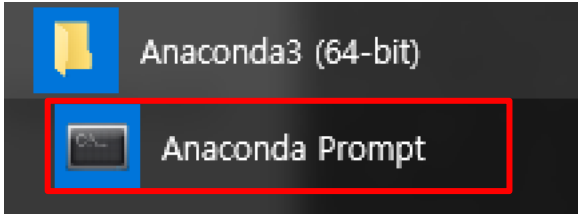
- A mini version of Anaconda that includes just conda and its dependencies
- https://repo.continuum.io/miniconda/Miniconda3-latest-Windows-x86_64.exe

Miniconda

	Windows	Mac OS X
Python 3.6	64-bit (exe installer) 32-bit (exe installer)	64-bit (bash installer)
Python 2.7	64-bit (exe installer) 32-bit (exe installer)	64-bit (bash installer)

Miniconda: Install Packages

- conda install jupyter
- conda install pandas pandas-datareader
- conda install matplotlib scipy

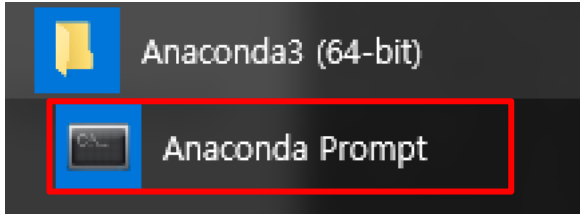


conda install jupyter

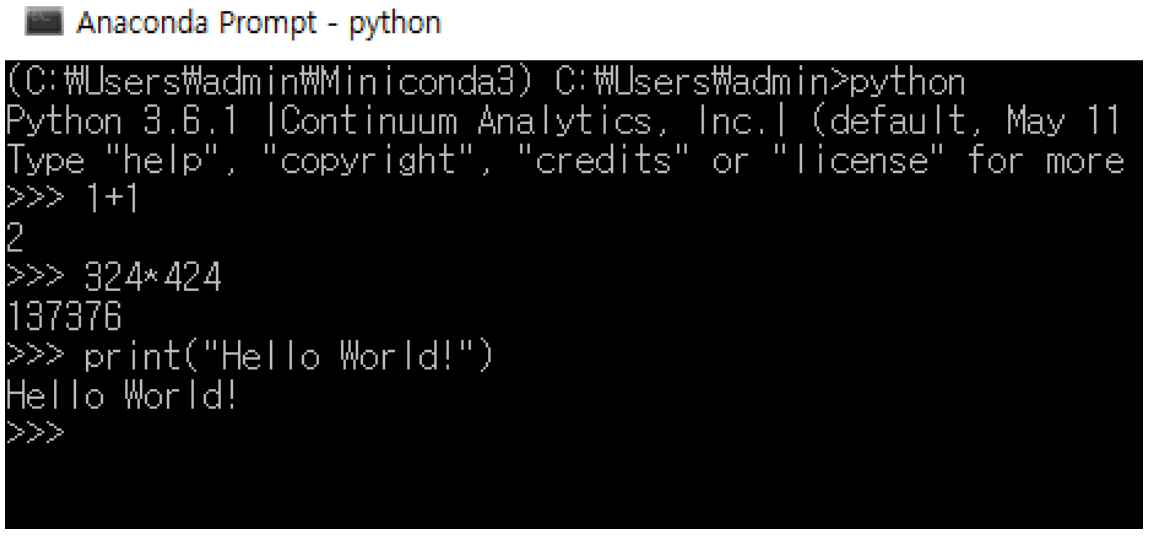
```
(C:₩Users₩admin₩Miniconda3) C:₩Users₩admin>conda install jupyter
Fetching package metadata ...........
Solving package specifications: .

Package plan for installation in environment C:₩Users₩admin₩Miniconda3:

The following NEW packages will be INSTALLED:

    bleach:             1.5.0-py36_0
    colorama:           0.3.9-py36_0
    decorator:          4.0.11-py36_0
    entrypoints:        0.2.3-py36_0
    html5lib:           0.999-py36_0
    icu:                57.1-vc14_0   [vc14]
    ipykernel:          4.6.1-py36_0
    ipython:            6.1.0-py36_0
    ipython_genutils:   0.2.0-py36_0
```

Run Python Interpreter

- Anaconda Prompt



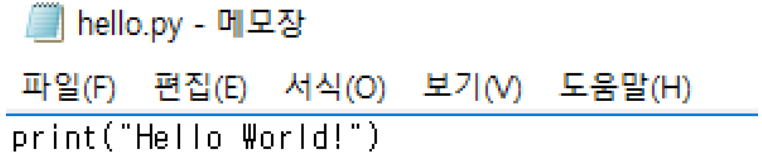
- Run Python Interpreter



First Python Program

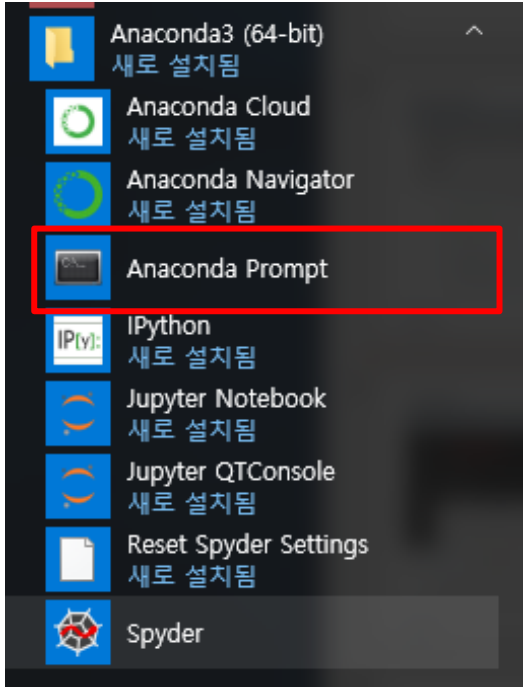
- Anaconda Prompt
  - Create File: notepad hello.py

  - Edit – Save – Exit



  - Run: python hello.py

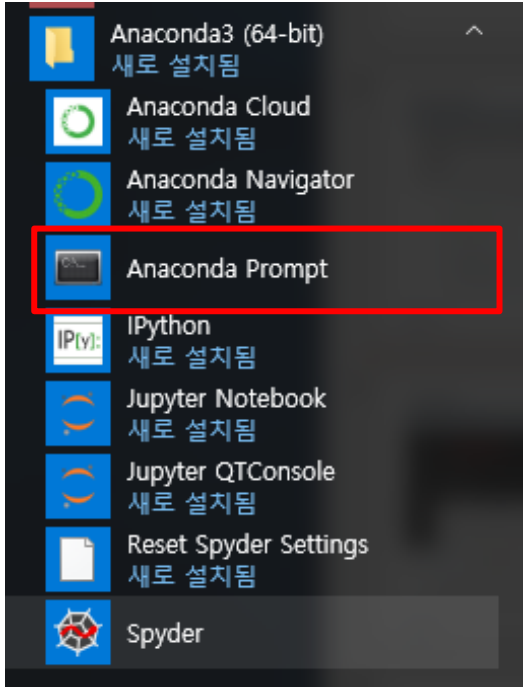
Run Jupyter

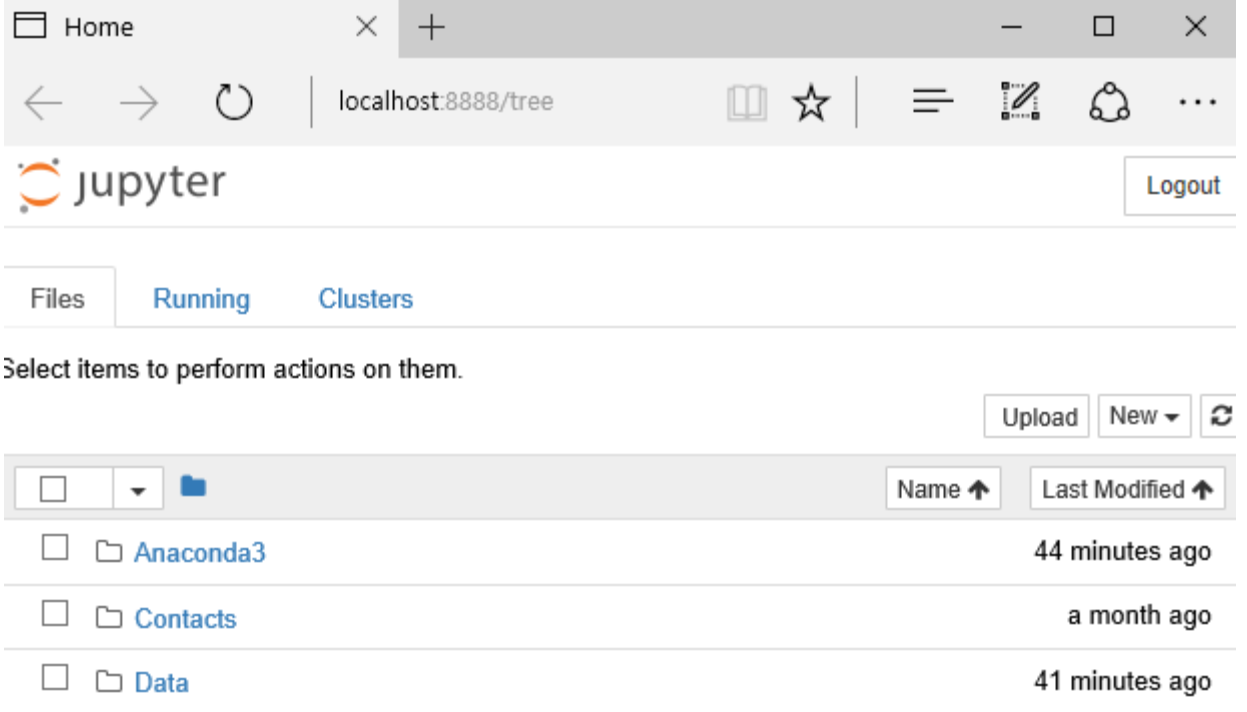


jupyter notebook

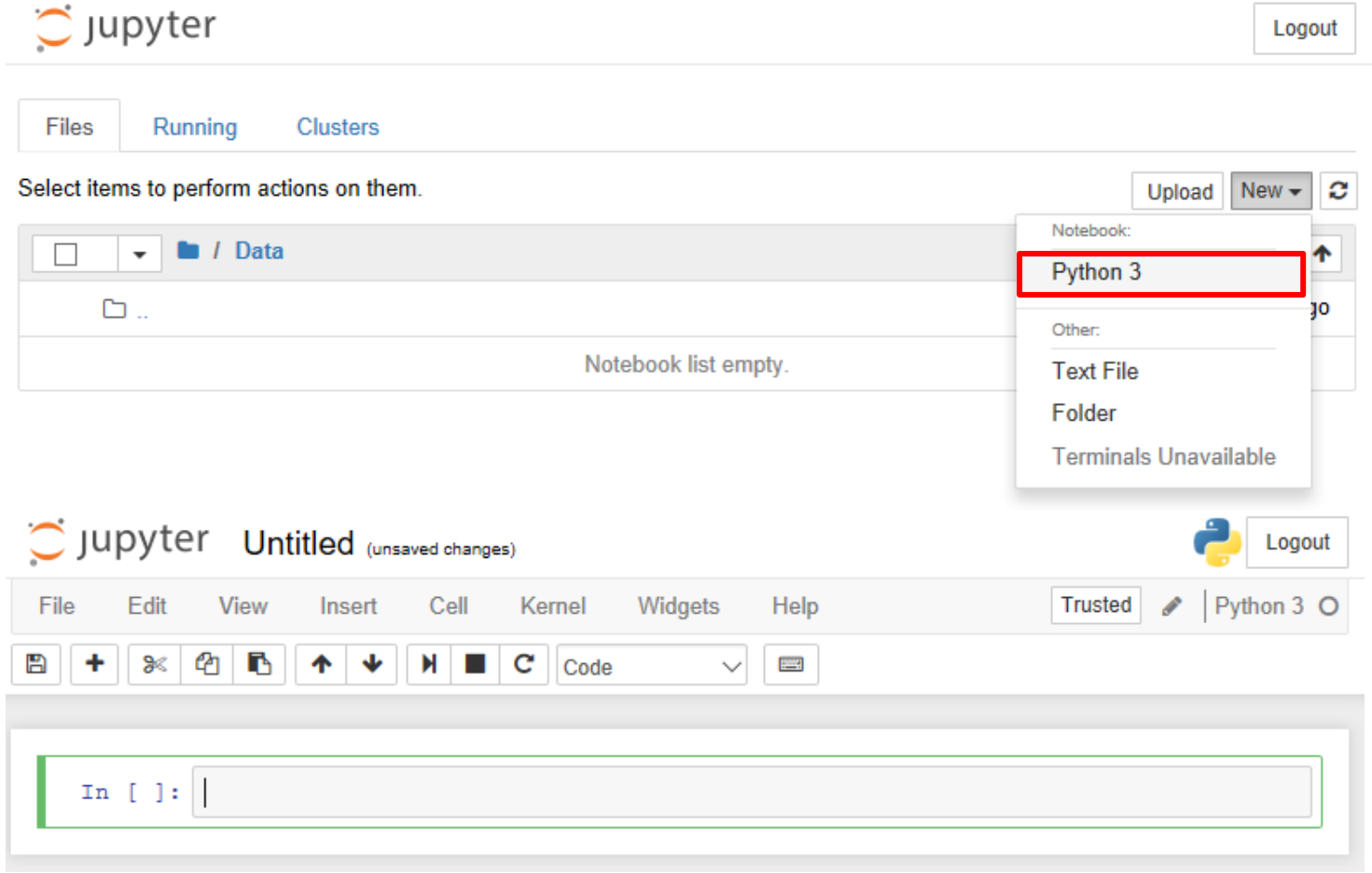
```
(C:₩Users₩admin₩Anaconda3) C:₩Users₩admin>jupyter notebook
[I 02:44:41.686 NotebookApp] Serving notebooks from local directory: C:₩
[I 02:44:41.686 NotebookApp] 0 active kernels
[I 02:44:41.686 NotebookApp] The Jupyter Notebook is running at: http://
33245d6da81df70f5fd9a7
[I 02:44:41.686 NotebookApp] Use Control-C to stop this server and shut
[C 02:44:41.686 NotebookApp]

    Copy/paste this URL into your browser when you connect for the first
    to login with a token:
        http://localhost:8888/?token=ed9a9de0db592ea84511ee1d9633245d6da
[I 02:44:41.889 NotebookApp] Accepting one-time-token-authenticated conn
```

Run Jupyter

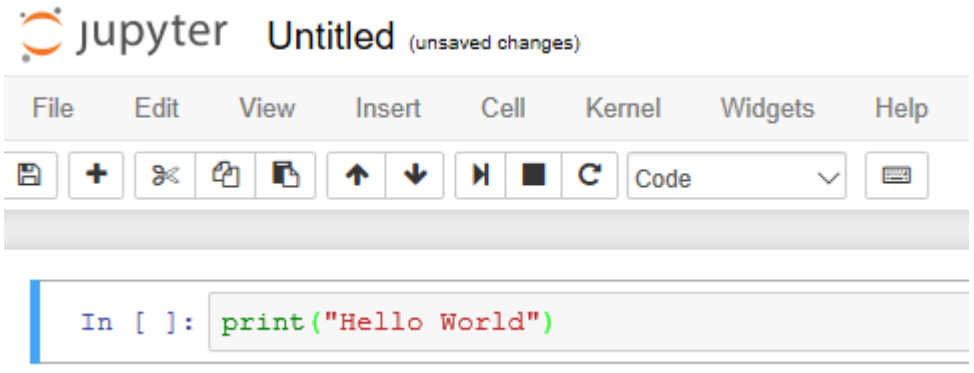

Anaconda3 (64-bit)
새로 설치됨
Anaconda Cloud
새로 설치됨
Anaconda Navigator
새로 설치됨
Anaconda Prompt
IPython
새로 설치됨
Jupyter Notebook
새로 설치됨
Jupyter QTConsole
새로 설치됨
Reset Spyder Settings
새로 설치됨
Spyder

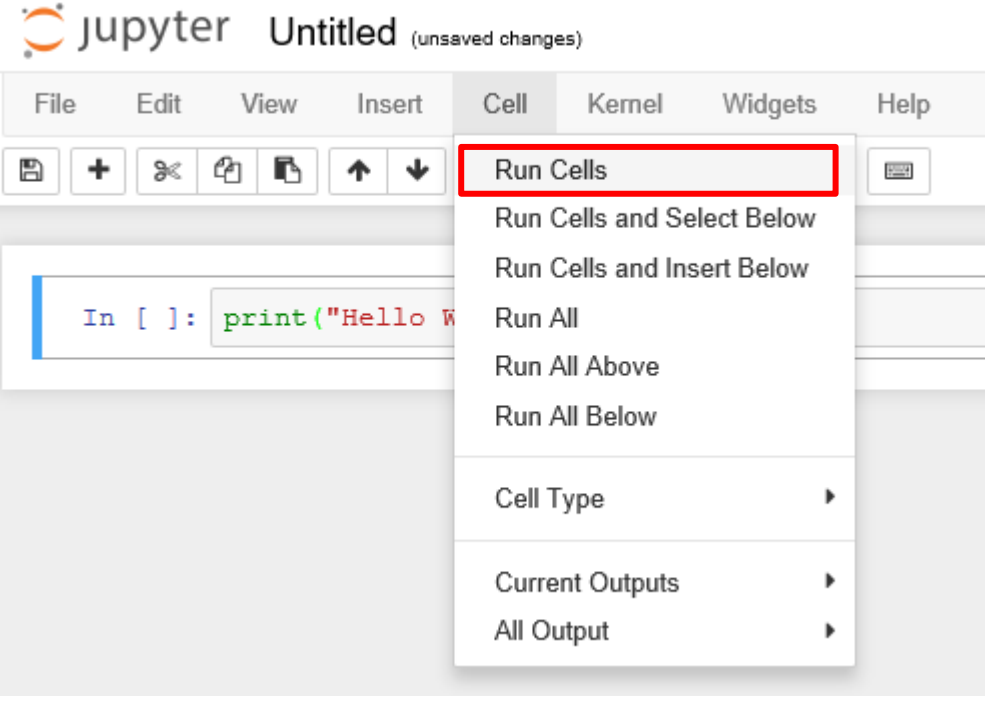

Home
localhost:8888/tree
jupyter
Logout
Files
Running
Clusters
Select items to perform actions on them.
Upload
New
Name
Last Modified
Anaconda3
44 minutes ago
Contacts
a month ago
Data
41 minutes ago

New Notebook

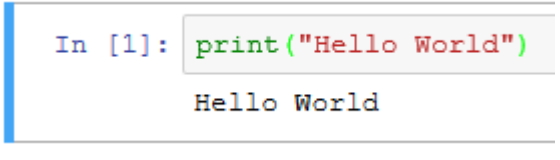


Run Python Code

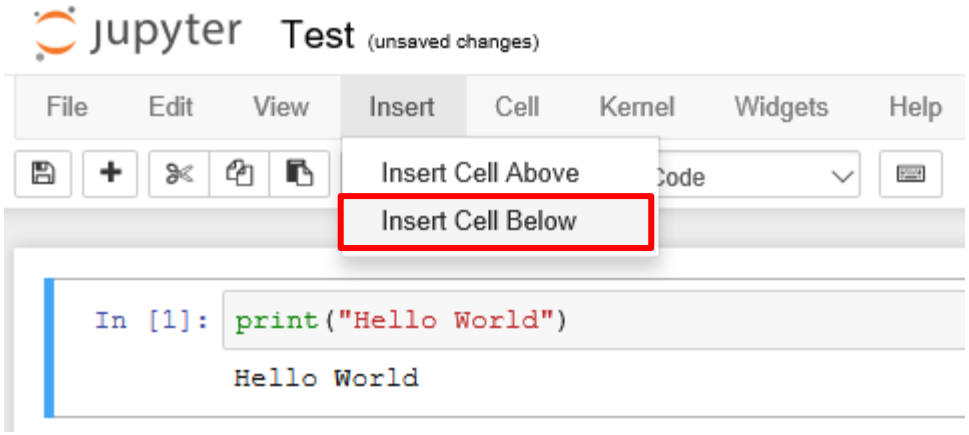


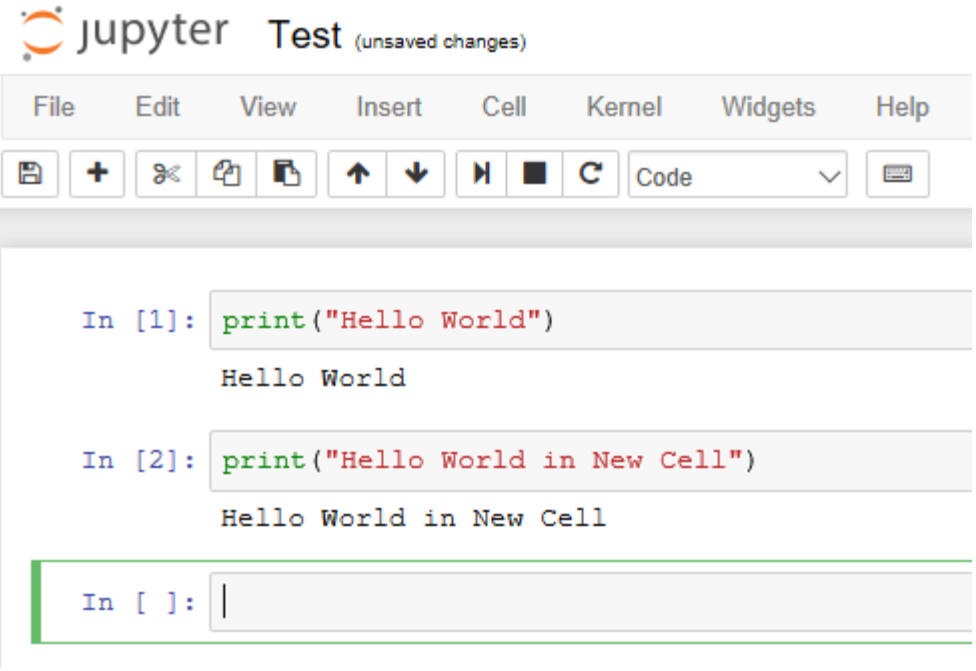


or Ctrl+Enter

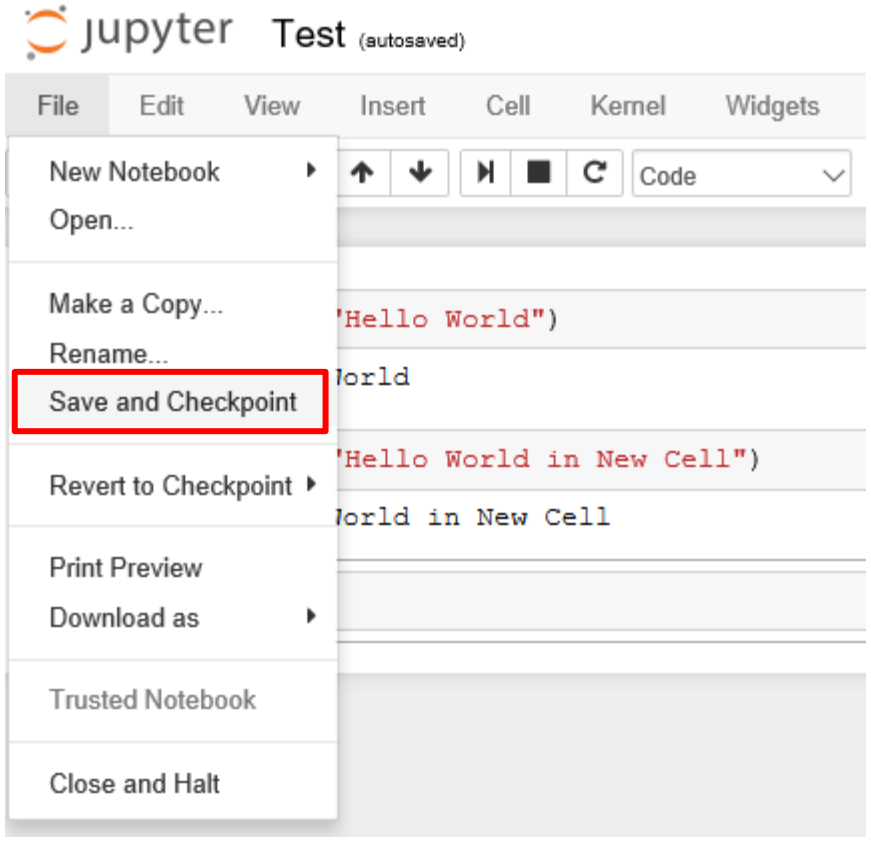


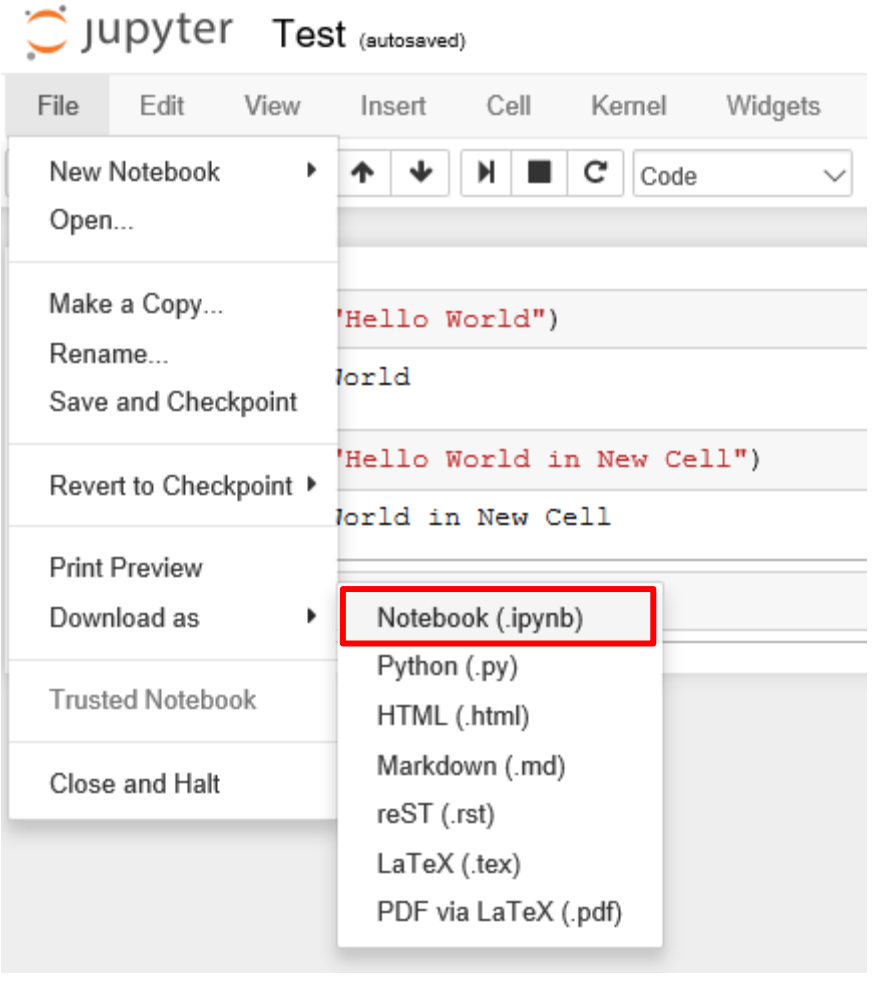
Cell


jupyter Test (unsaved changes)
File Edit View Insert Cell Kernel Widgets Help
Insert Cell Above
Insert Cell Below
In [1]: print("Hello World")
Hello World

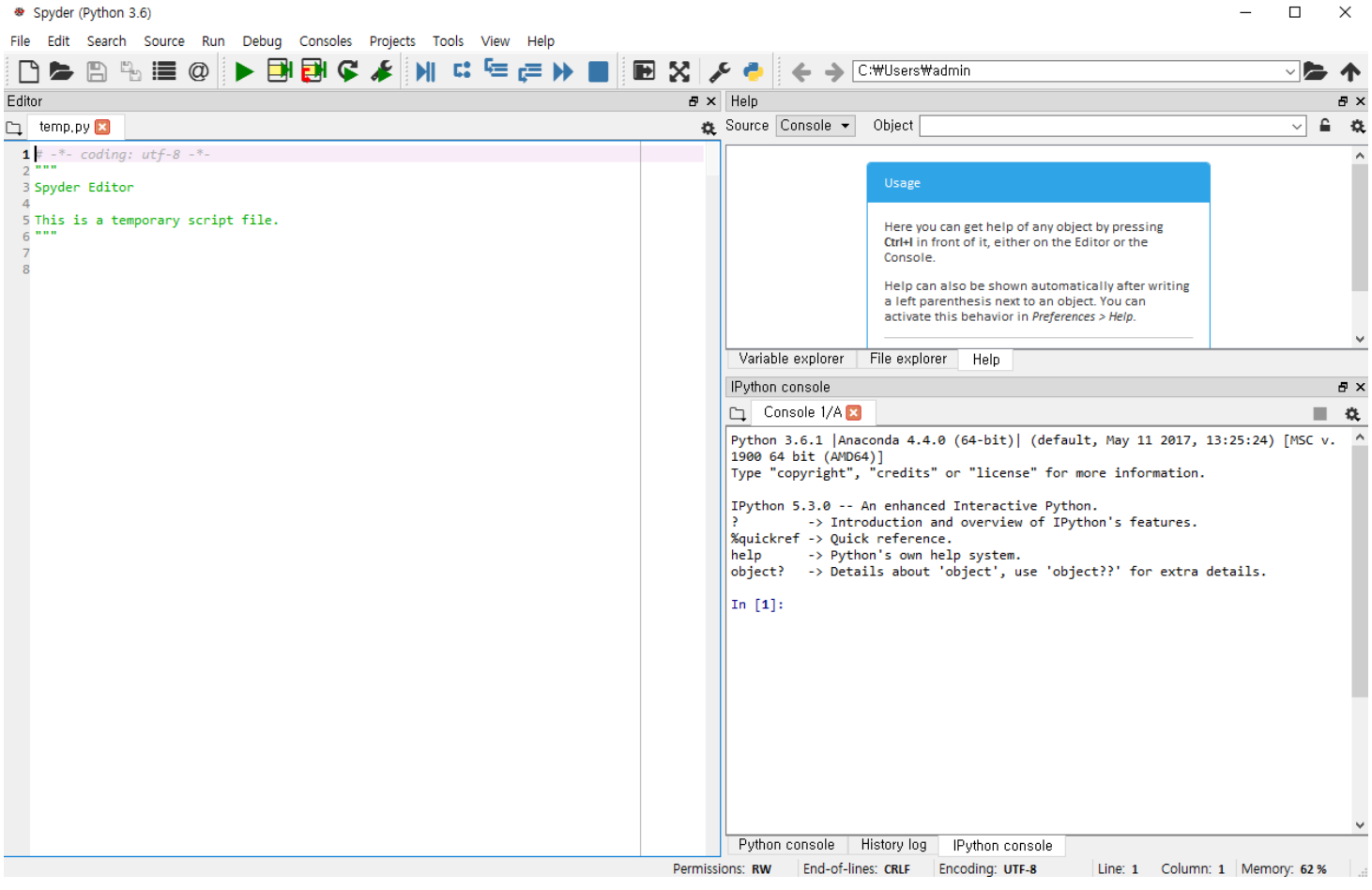

jupyter Test (unsaved changes)
File Edit View Insert Cell Kernel Widgets Help
Code
In [1]: print("Hello World")
Hello World
In [2]: print("Hello World in New Cell")
Hello World in New Cell
In [ ]:

Save Notebook

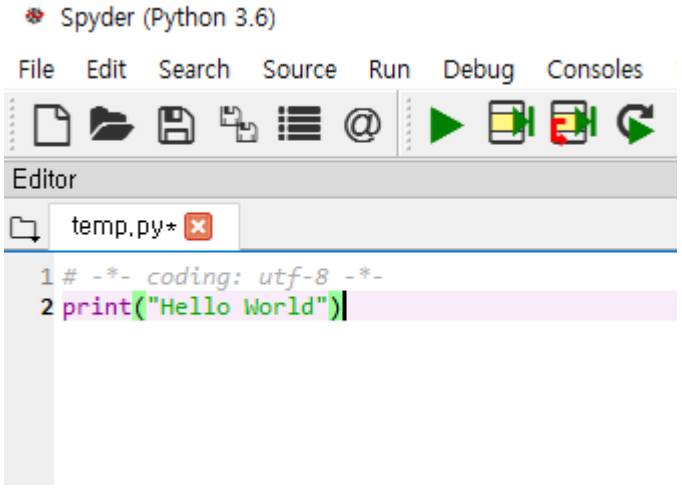


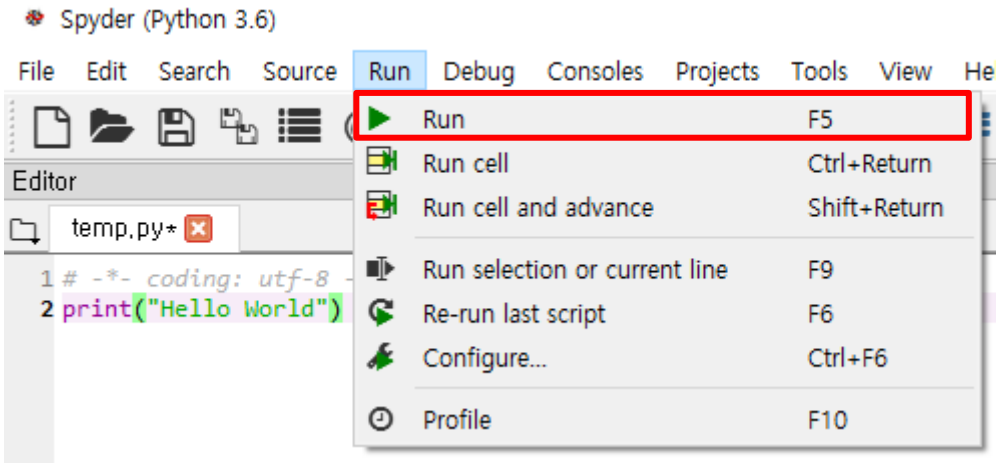


Spyder

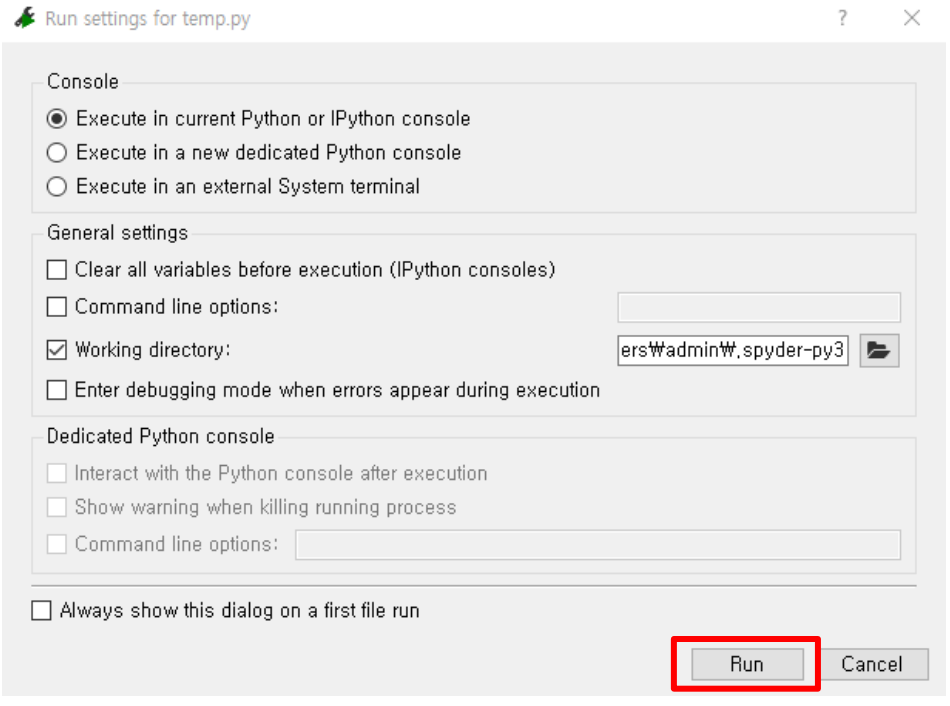

Spyder (Python 3.6)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:₩Users₩admin
Editor
temp.py
-*- coding: utf-8 -*-
"""
Spyder Editor
This is a temporary script file.
"""
Help
Source Console Object
Usage
Here you can get help of any object by pressing Ctrl+I in front of it, either on the Editor or the Console.
Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in Preferences > Help.
Variable explorer File explorer Help
IPython console
Console 1/A
Python 3.6.1 |Anaconda 4.4.0 (64-bit)| (default, May 11 2017, 13:25:24) [MSC v. 1900 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.
IPython 5.3.0 -- An enhanced Interactive Python.
? -> Introduction and overview of IPython's features.
%quickref -> Quick reference.
help -> Python's own help system.
object? -> Details about 'object', use 'object??' for extra details.
In [1]:
Python console History log IPython console
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 1 Column: 1 Memory: 62 %

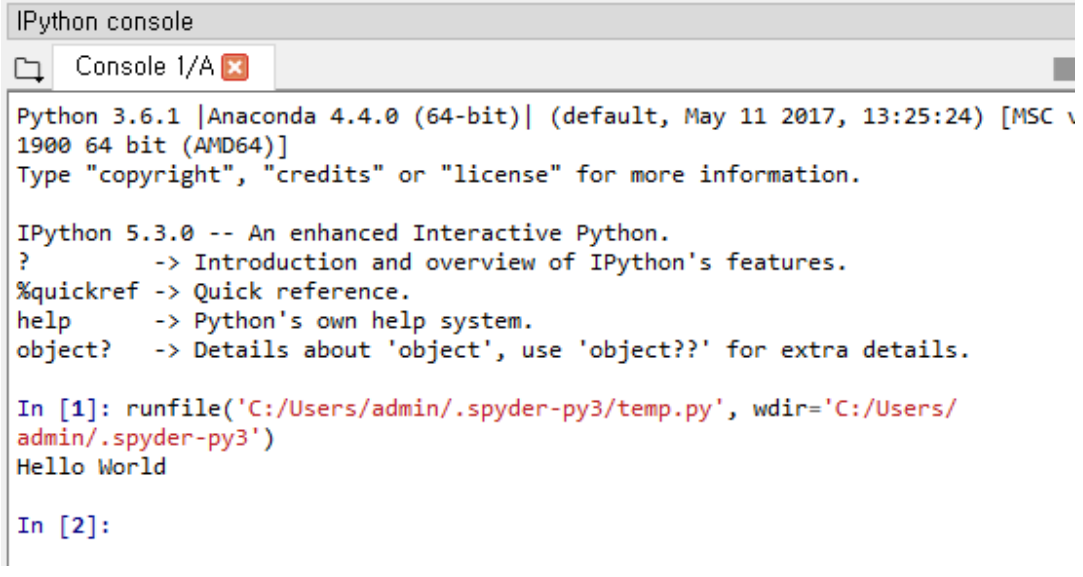
Run Python Code in Spyder





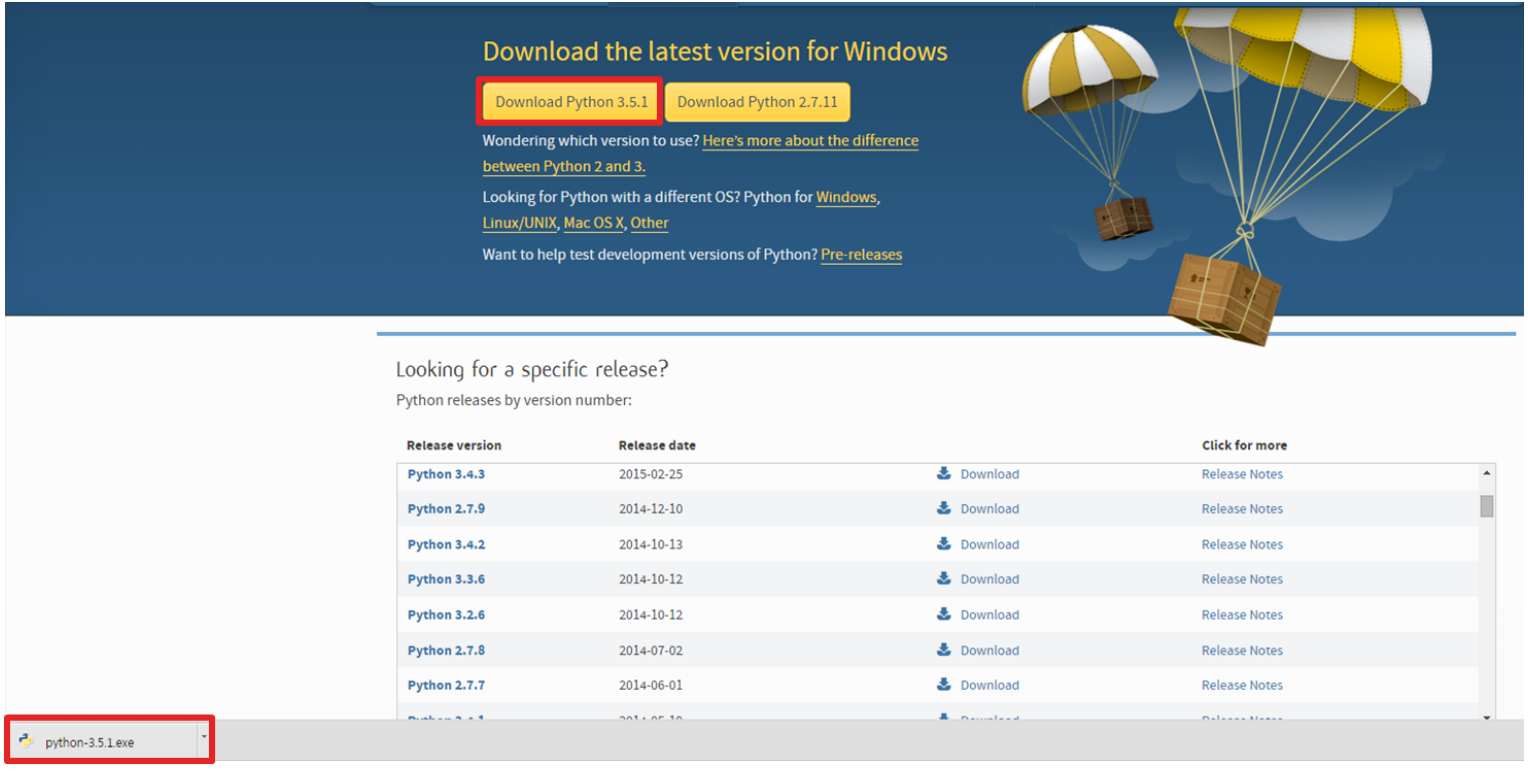
Run Python Code in Spyder



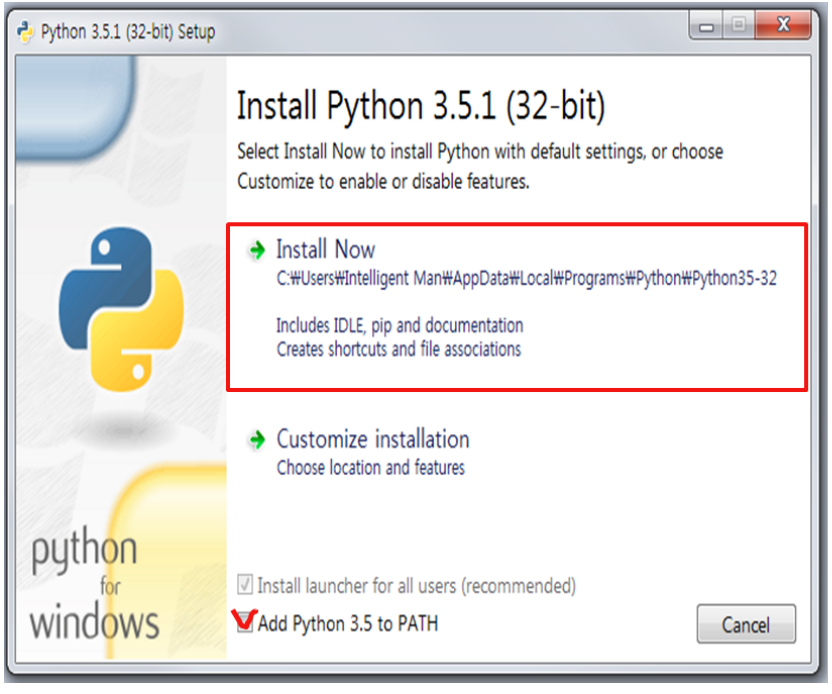


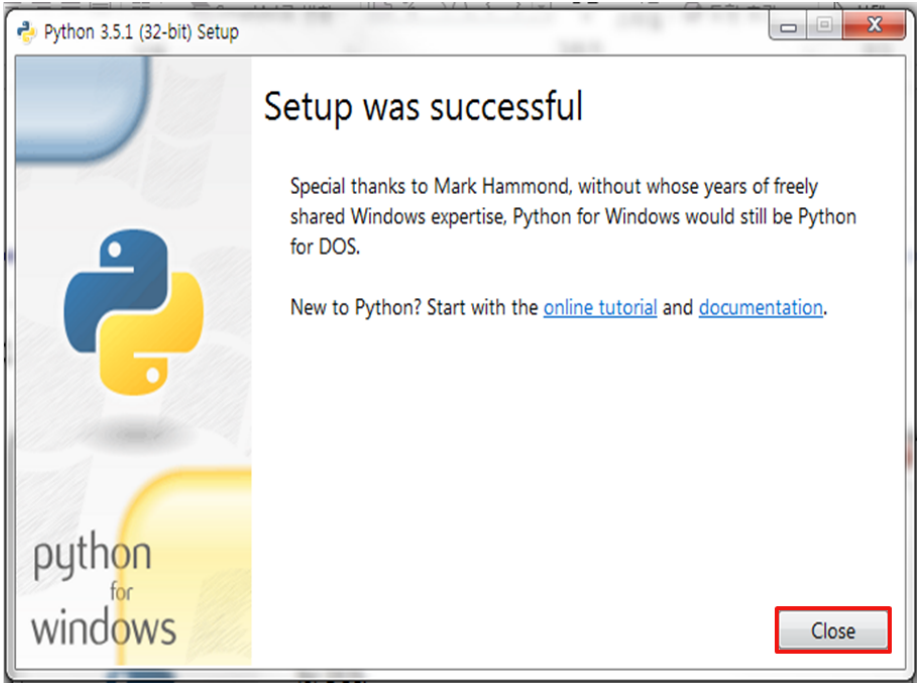
Appendix1: Install Python using Official Package

- Download Python
  - https://www.python.org/downloads/

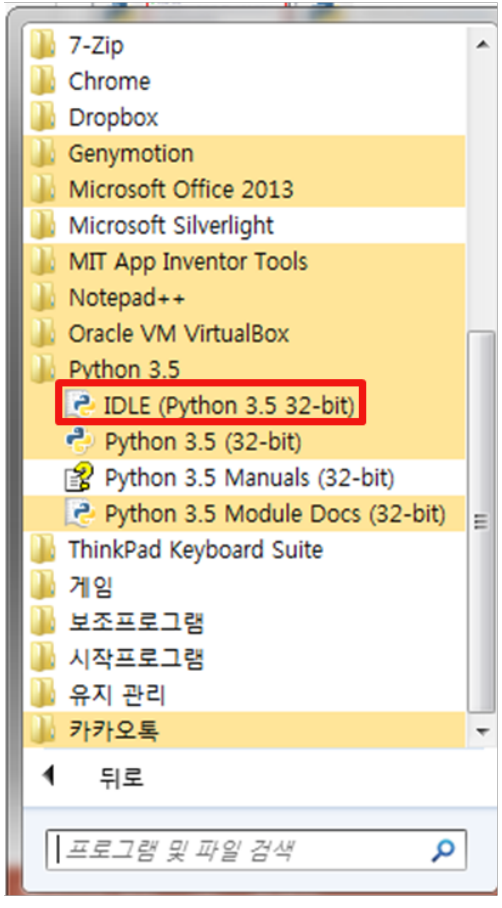


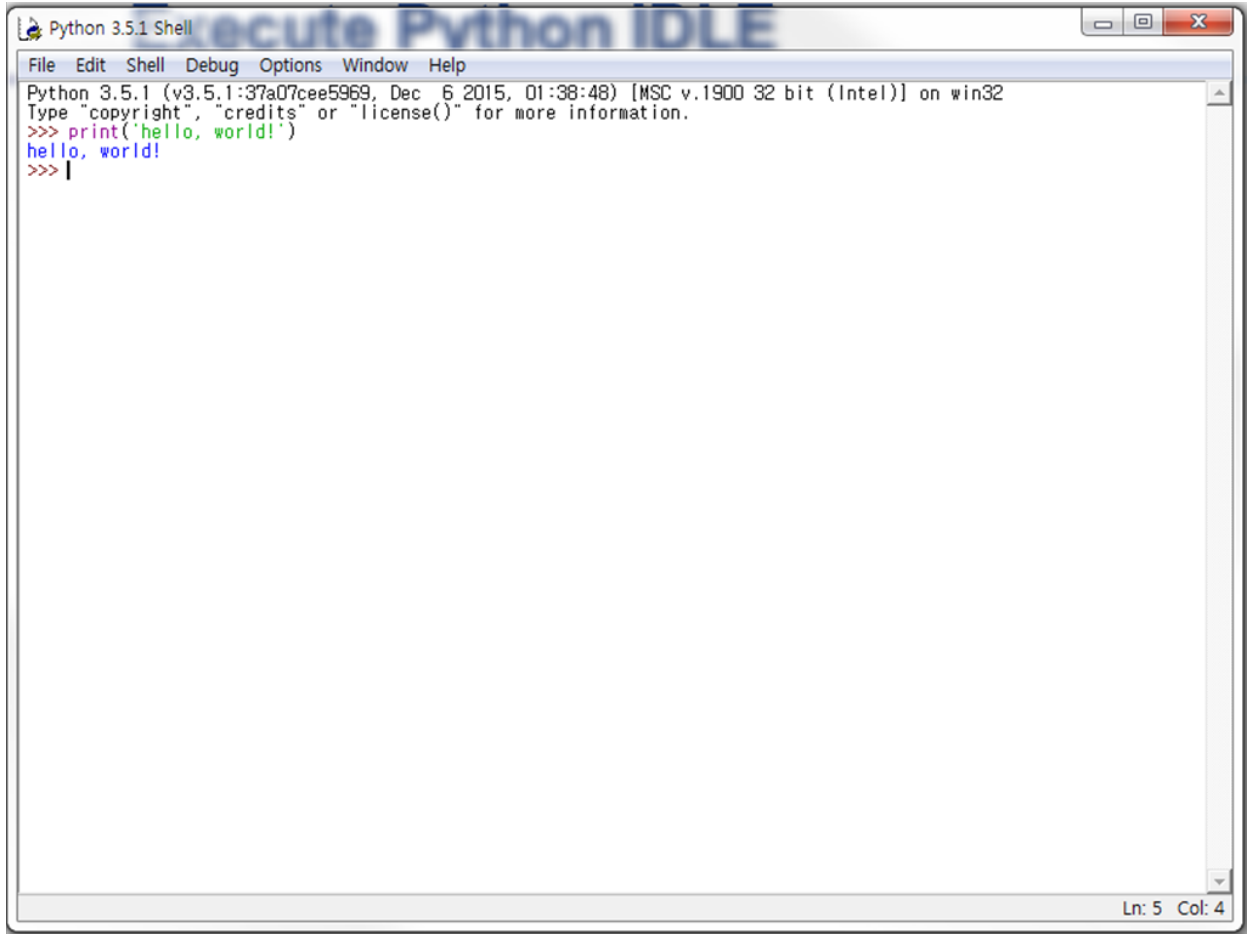
Appendix1: Install Python



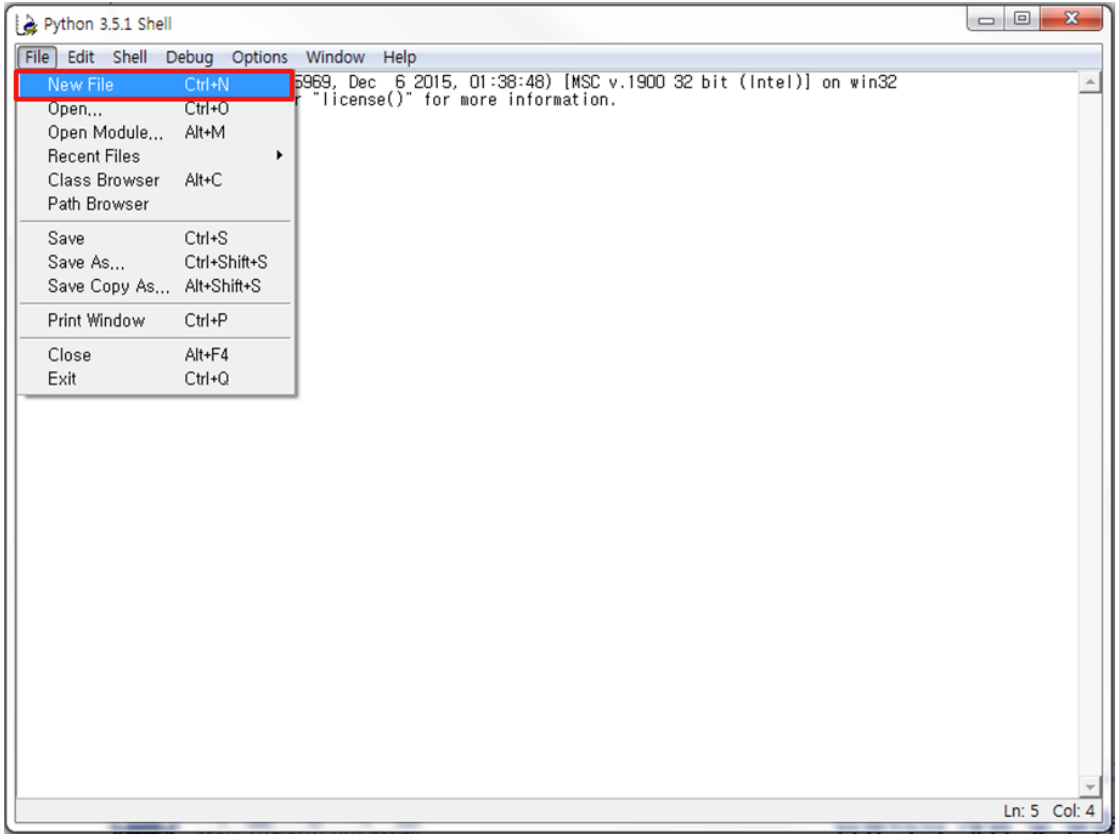


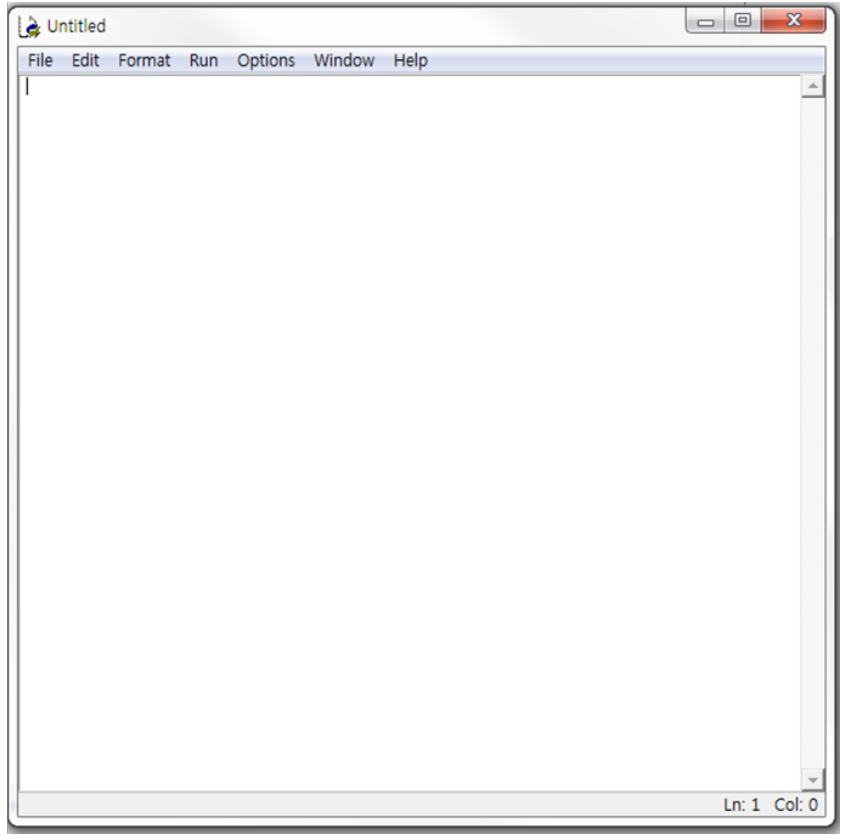
Appendix1: Execute Python IDLE



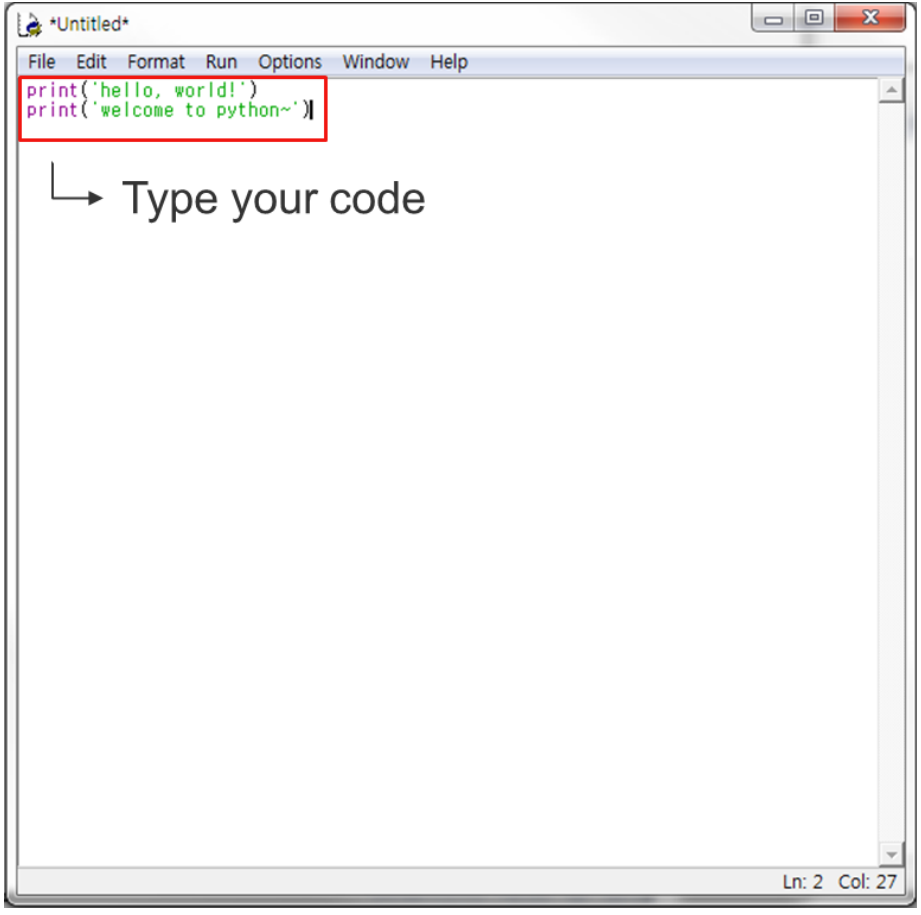


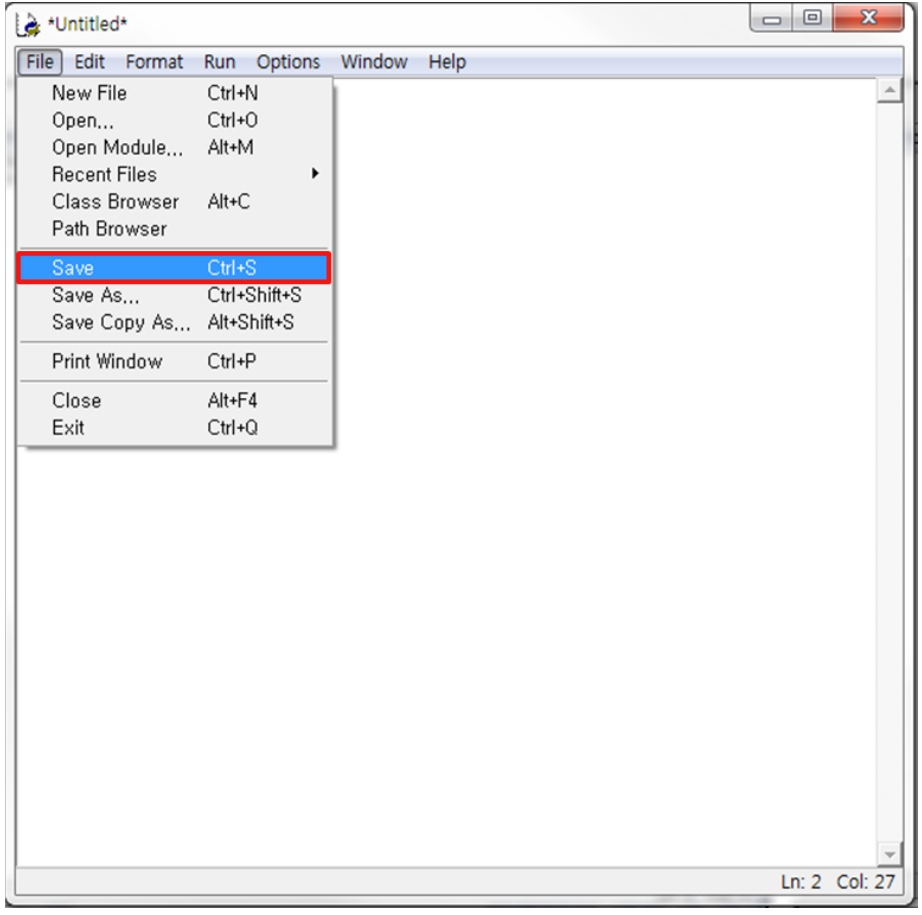
Appendix1: Save Python Scripts as File & Execute



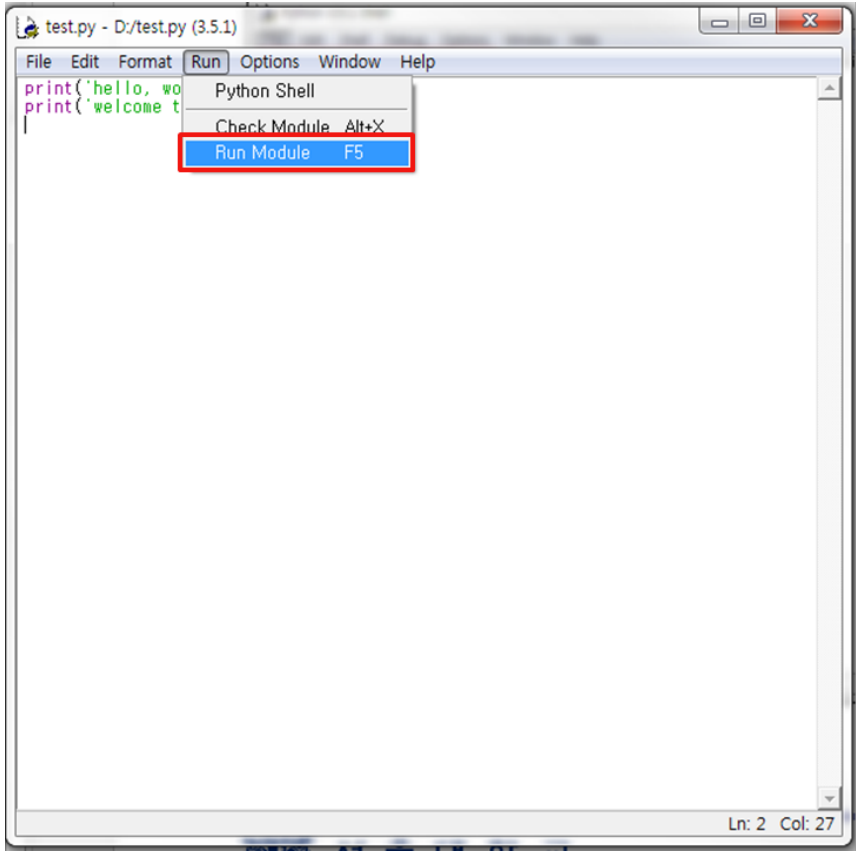


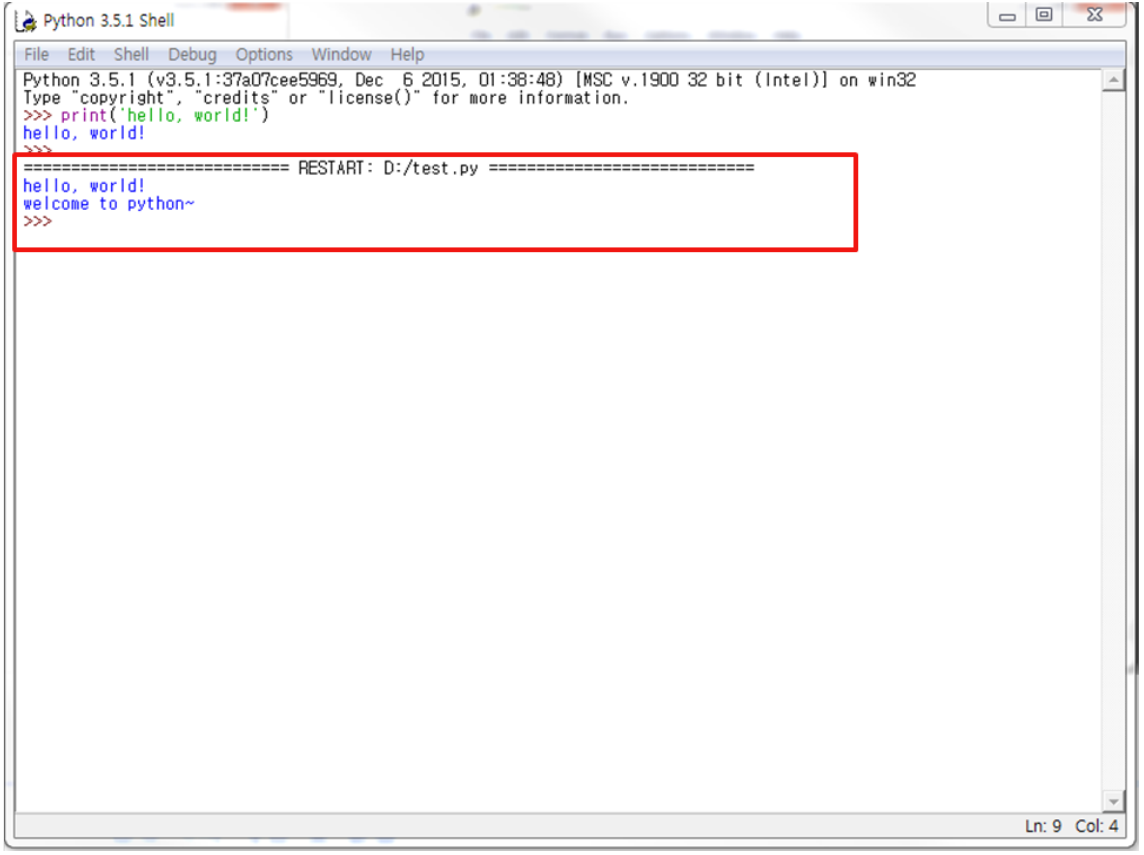
Appendix1: Save Python Scripts as File & Execute





Appendix1: Save Python Scripts as File & Execute



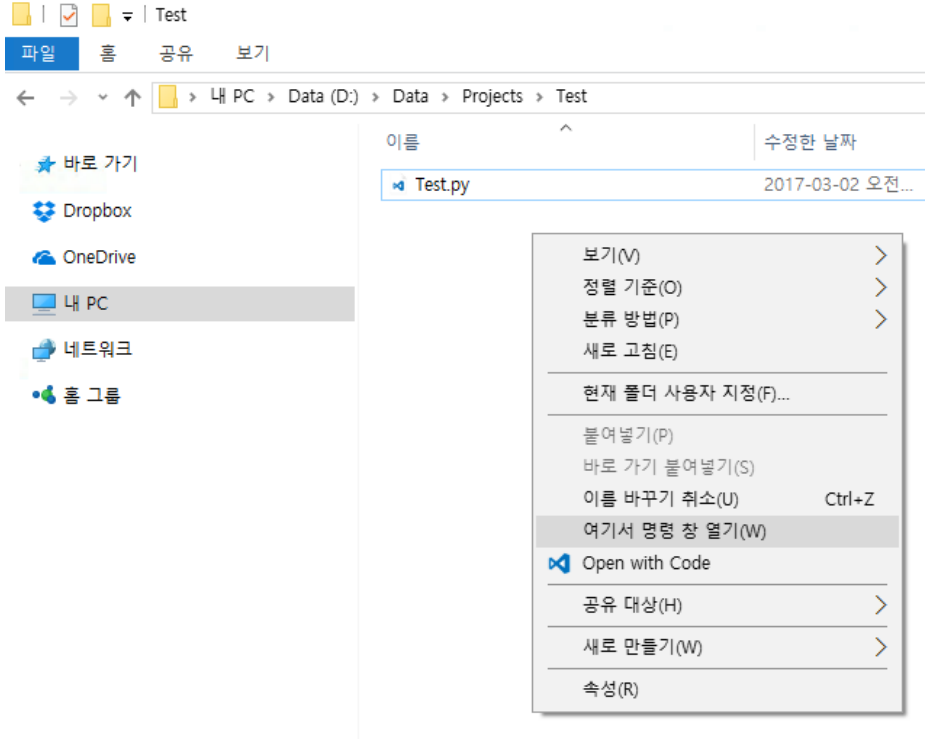


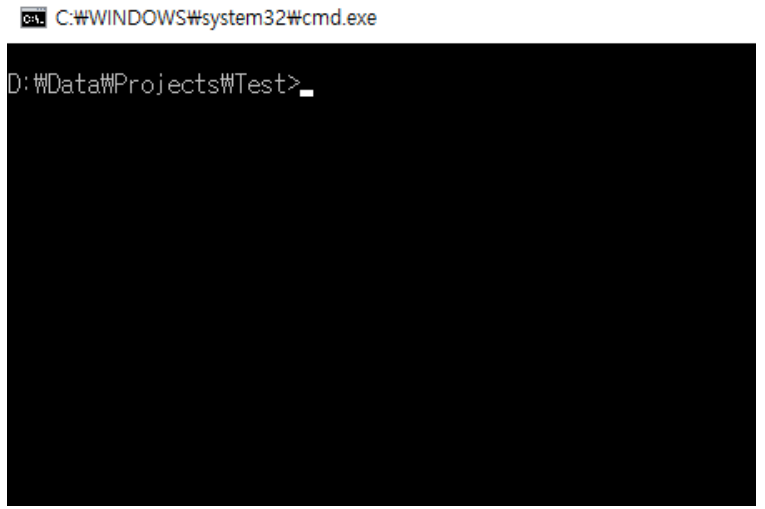
Appendix2: Programming with Text Editors

- Atom
  - https://atom.io/
- Sublime Text 3
  - https://www.sublimetext.com/3
- Visual Studio Code
  - https://code.visualstudio.com/

Appendix2: Open Command Prompt

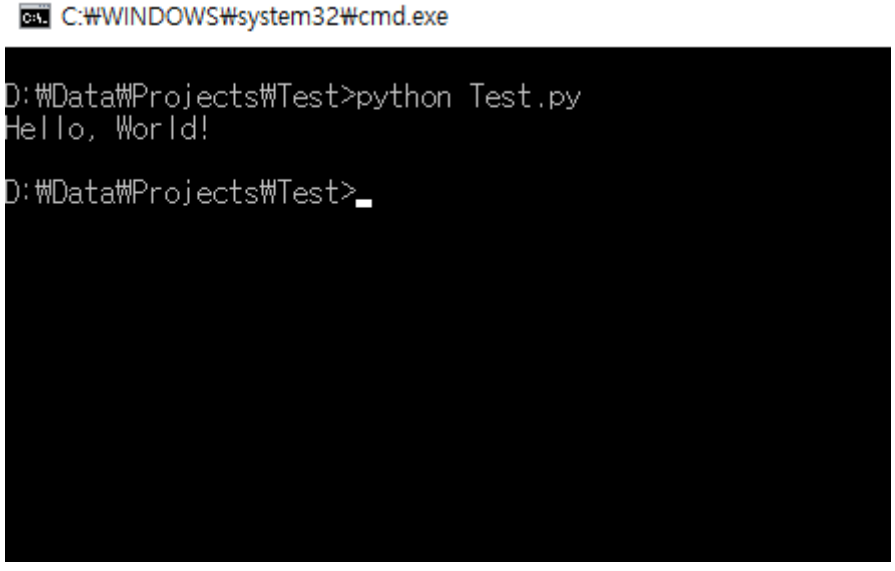
- Shift + Mouse Right Click
- "여기서 명령 창 열기"





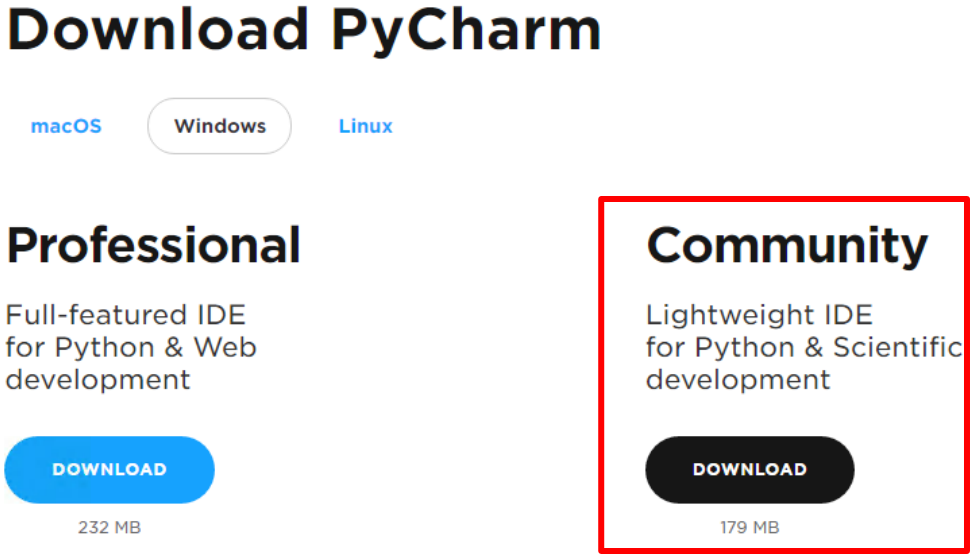
Appendix2: Run the Python Program

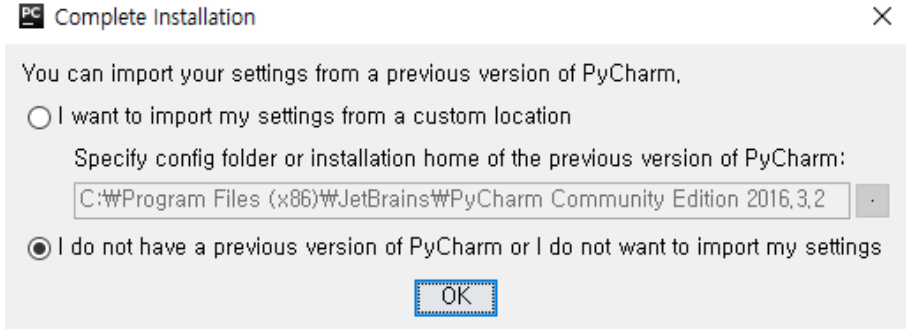
- >python Test.py

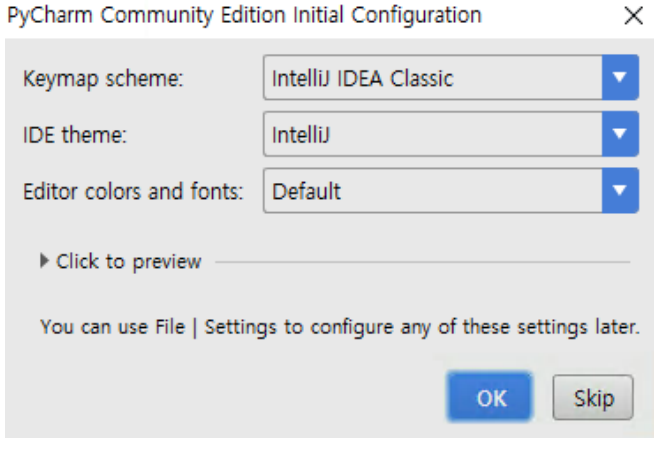


Appendix3: PyCharm

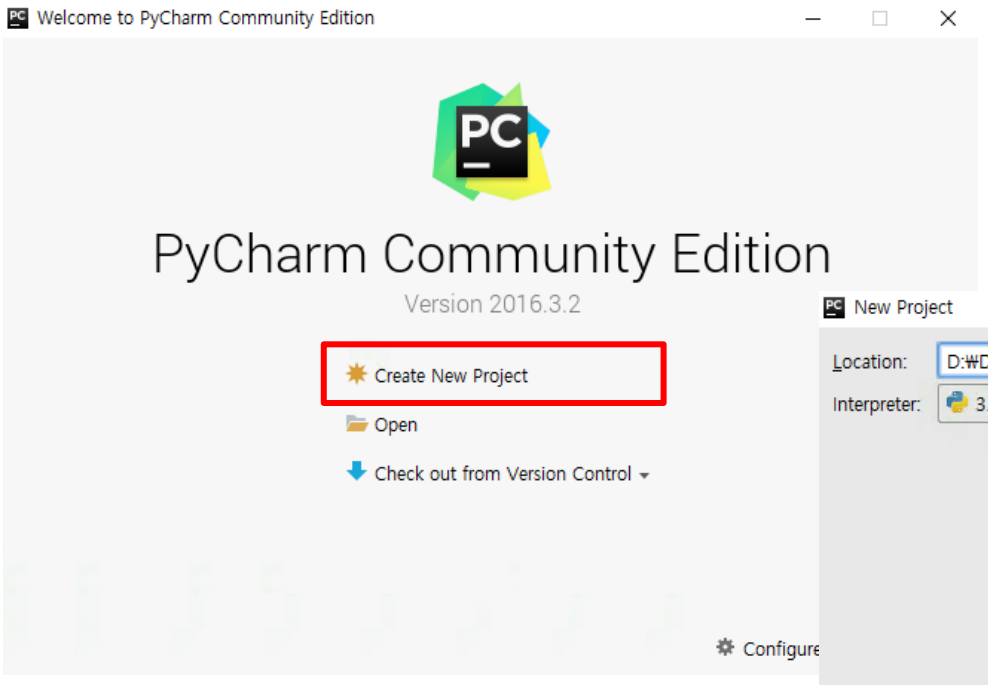
- Integrated Development Environment for Python
- https://www.jetbrains.com/pycharm/

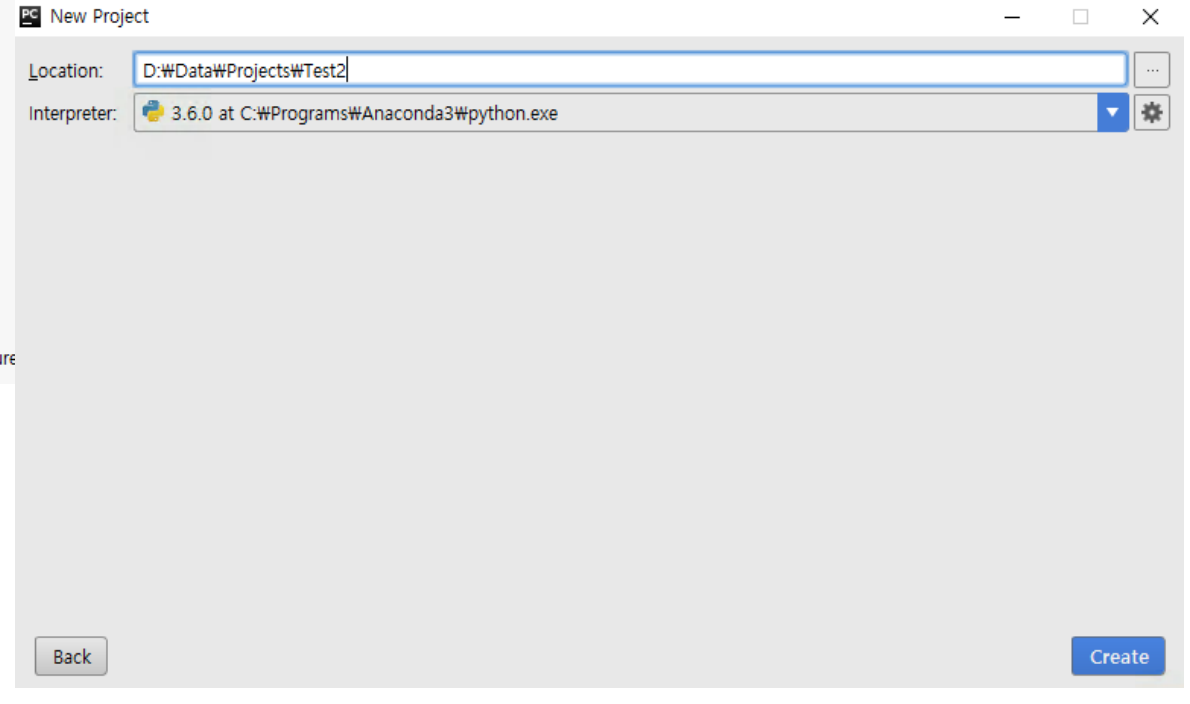




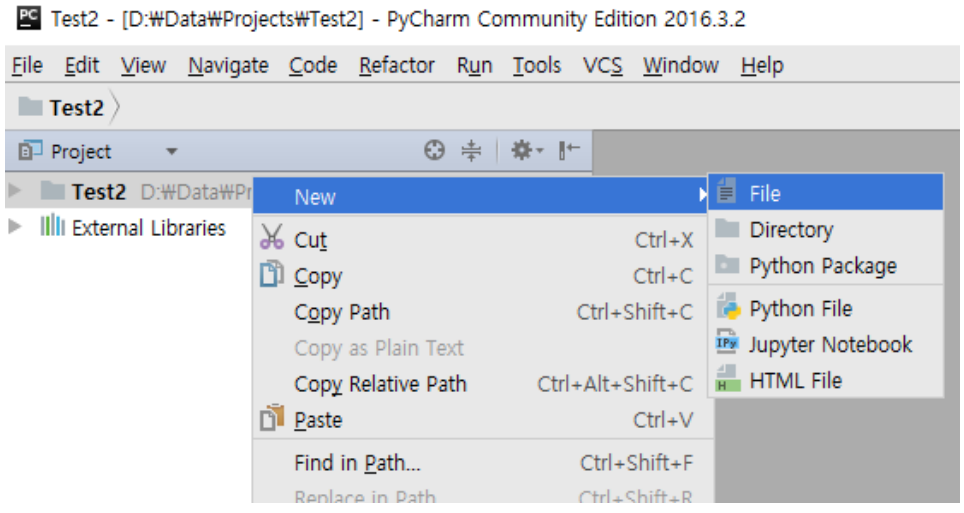


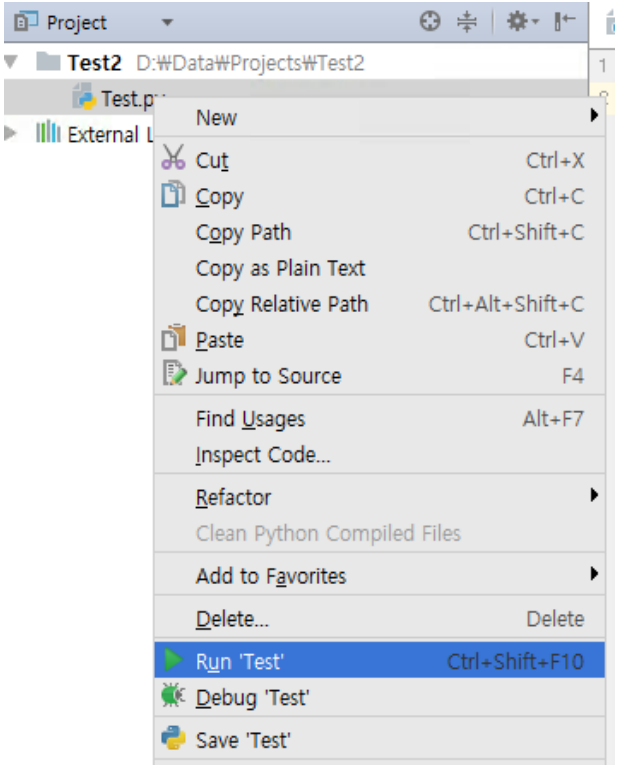
Appendix3: PyCharm



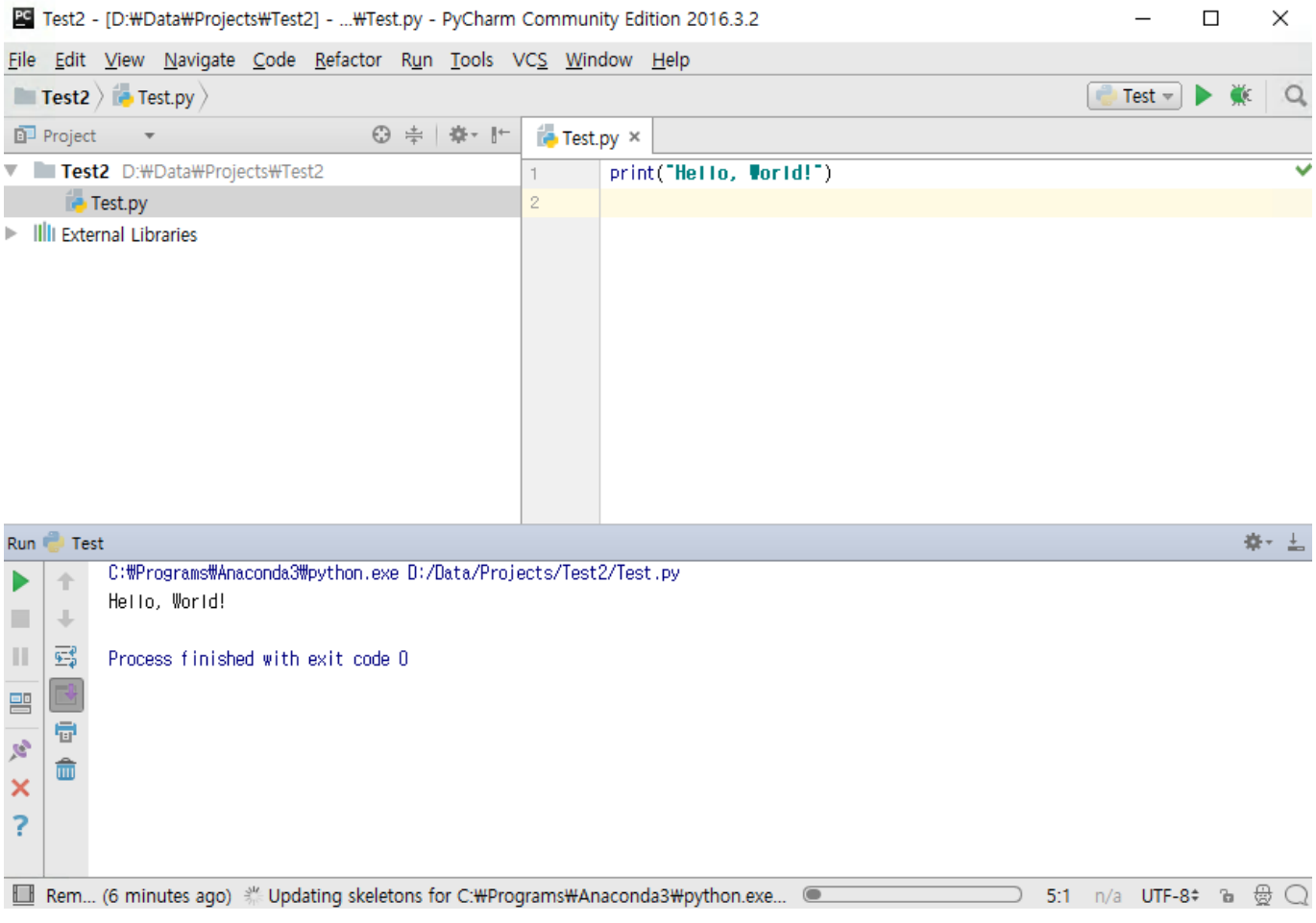


Appendix3: PyCharm





Appendix3: PyCharm



References

- For more information,
- https://docs.python.org/3/using/windows.html (for Windows)
- https://docs.python.org/3/using (other platforms)