COMP30810: Intro to Text Analytics

LAB 01: Installation

Tasks:

PART 01: ANACONDA & ENVIRONMENT

1) Install Anaconda
2) Check version Python
3) Create working folder
4) Use command "cd" to go to the folder
5) Create python environment: comp30810py36 with python 3.6 and libraries: pandas, scikit-learn, nltk, matplotlib, numpy, scipy
6) Activate environment: comp30810py36 for further working
7) Done part01.

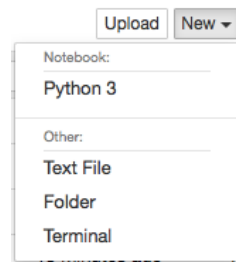PART 02: FIRST TEST PYTHON WITH '.PY'

1) Check the working environment is: comp30810py36. If not, activate the comp30810py36 environment.
2) Open "Spyder" (using terminal command: spyder)
3) On Editor, write the code: print("Hello COMP30810!")
4) Save as… to the working folder with the name "test01.py"
5) Check the execution by:

    a. Using ▶ on Spyder. The output will display at IPython console
    b. Using terminal: python test01.py
6) Are they the same result? → Close Spyder

PART 03: JUPYTER NOTEBOOK

1) Check the working environment is: comp30810py36. If not, activate the comp30810py36 environment.
2) Checking the working folder. If not there, use "cd" to get there.
3) Open Jupyter Notebook by terminal command: jupyter notebook
4) … The browser will be opened. If not, using the link: http://localhost:8888/tree

5) Create one notebook for today: at New → Python3

```
Upload   New ▾
    Notebook:
    Python 3
    Other:
    Text File
    Folder
    Terminal
```

6) Change the name of notebook by: test02
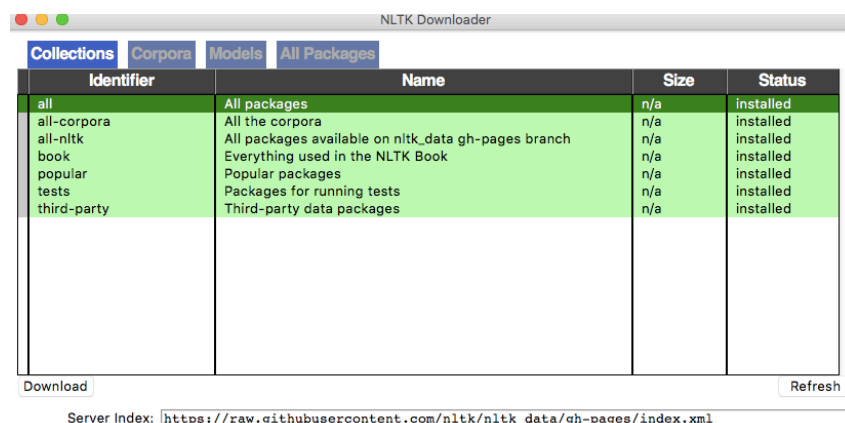7) In first cell, check the installed libraries as follows:

```python
import pandas as pd
import numpy as np
import scipy
import matplotlib.pyplot as plt
import nltk
```
→ execute by CTRL + ENTER

8) If no error, use the second cell to download packages from nltk

```python
import nltk
nltk.download()
```

9) It will open the nltk downloader

10)   Click to Download "all"
11)   After download, close the downloader window
     Note: close downloader, not python.
12)   Third cell: check the running of notebook by

```python
print("Hello Comp30810!")
```

```
Hello Comp30810!
```

13)   Done!