

exercise.M2.exercise.1 => Python Library

0.Problem summary

For this problem

Objectives:

1. Import and manipulate a .csv file
2. Assess your Python Programming Skills

=> Other assignments are more challenging. Use this to assess your skills.
 => Attempt to solve the problems without searching for online assistance.
 => Prepare questions for class discussion to help source additional tools.

Codebook and data files

a. = article (news, journal)	c. = cheatsheet code. = .py or .ipynb	g = graphic
howTo. = explanandum	py.M. exercise or assignment python file	r = reading

File Name	Purpose\Description
https://github.com/cosc-526/cosc.526.home.page/blob/main/code_notebook_cosc_526.ipynb save your own copy!	Course Codebook in Jupyter Notebook name = code.notebook.cosc.526.ipynb
https://github.com/cosc-526/cosc.526.home.page/tree/data_shakespeare_corpus_text_name	Data: all shakespeare text files
	i) Kaggle data homepage ii) grab an api key from this page if using that method to import data

note.1: the codebook is formatted differently and below highlights expected outcomes.

note.2: the instructions below are an overview and more details are in the notebook.

note.3: perform your work in the notebook, and export and submit as a .pdf file.

Problem 0 - Import, inspect, and view descriptive statistics

Import data and view descriptive statistics with the pandas library.

- grab data from **Github** URL, .csv. or kaggle api

Problem.1 - Description =>

The United S

Task.0 - Expected outcome:

```
covid19-variants.zip: Skipping, found more recently modified local c
> dataframe fields w pd.head <
-----
location  date      variant  num_sequences  perc_sequences \
0  Angola  2020-07-06    Alpha             0             0.0
1  Angola  2020-07-06  B.1.1.277             0             0.0
2  Angola  2020-07-06  B.1.1.302             0             0.0
3  Angola  2020-07-06  B.1.1.519             0             0.0
4  Angola  2020-07-06  B.1.160              0             0.0

num_sequences_total
0      3
1      3
2      3
3      3
4      3

==> descriptive statistics <==
-----
count  num_sequences  perc_sequences  num_sequences_total
mean      72.0         6.0          1510.0
std     1669.0        22.0          8445.0
min        0.0        -0.0           1.0
25%        0.0         0.0          12.0
50%        0.0         0.0           59.0
75%        0.0         0.0          394.0
max    142280.0       100.0       146170.0 1
```

Problem.2 - Description =>

Which v

Task.0 - Expected outcome:

Problem.3 - Description =>

Which cou

Task.0 - Expected outcome:

Problem.4 - Description =>

Task.0 - Expected outcome:

Problem.5 - Description =>

Determine e

Task.0 - Expected outcome:

Problem.6 - Description =>

Determine

Task.0 - Expected outcome:

Additional resources

- <https://github.com/cosc-526/cosc.526.home.page>
- [Jupyter Community Forum](#)

Additional resources

- need help? [Jupyter Community Forum](#)

10. Additional resources

- [Anaconda for windows](#)
- Install scientific [packages](#).
- Anaconda installation [documentation](#).
- Jupyter Notebook [documentation](#) (including [get started](#) guides).
- Jupyter Discourse [Forum](#).
 - Search here for tips, tricks, and solutions.
- Python Package Index ([pypi](#))