**Assignment Zero**

Clean code in python:<https://learning.oreilly.com/library/view/clean-code-in/9781800560215/Text/Chapter_2.xhtml>

**Requirement 1: Python**

After reading chapter 2 in Clean code in Python book,Imagine you are writing your own linear algebra library. How will you make use of the concepts you read in your implementation?

* Your package should contain at least 3 linear algebra functionalities feel free to choose them as you want
* This isn’t about the math,It is about how will you organize your code and make it pythonic,You are encouraged -actually required :D- to use numpy for any mathematical implementation
* You are required to use OOP
* Ever heard of Doc strings? If not then give it a go and use it in your implementation.
* Using context managers is a bonus
* If you want,you can provide a document justifying your implementation and how it was inspired by reading the best practices in the book,However this isn’t mandatory (bas feeh bonus :D)
* Check this <https://www.tutorialsteacher.com/python/python-package> for more info about python packaging,it isn’t required but it will be considered as a bonus.
* Any other approach of clean code you apply and not mentioned in the chapter will be considered as bonus

This is a warm up assignment,so please don’t feel overwhelmed,You are only required to think freely and demonstrate your understanding to the concepts.

**Requirement 2: NLTK**

NLTK library will be our used library through out the course,This requirement is just to make you more familiar with it and with its documentation.

* Download nltk on your laptop (you can use colab as well it is up to you)
* Given this input:”The Quick brown fox, Jumps over the lazy little dog”

You are required to use the library to reach this output:

output:[('The', 'DT'),

('Quick', 'NNP'),

('brown', 'NN'),

('fox', 'NN'),

(',', ','),

('Jumps', 'NNP'),

('over', 'IN'),

('the', 'DT'),

('lazy', 'JJ'),

('little', 'JJ'),

('dog', 'NN'),

('.', '.')]