Homework 5:

- **Show ALL Work, Neatly and in Order.**

- **No** credit for Answers Without Work.

- For written questions, submit a single pdf file includes all of your solutions.

- **DO NOT** submit individual files or images.

- For coding questions, submit **ONE** .py file and include your comments.

E.1:

In part of this exercise, you will use regular expression.

i. Load Email.txt dataset.

ii. Find all email addresses in the text file.

iii. Verify the results.

An email address usually follows these rules:

- Upper or lower case letters or digits

- Starting with a letter

- Followed by a the at sign symbol.

- Followed by a string of alphanumeric characters. No spaces are allowed

- Followed by a the dot "." symbol

- Followed by a domain extension(e.g.,"com", "edu", "net".)

E.2:

In part of this exercise, you will use regular expression.

i. Load war and peace by By Leo Tolstoy.

ii. Check line by line and find any proper name ending with "..ski" then print them all.

iii. Put all the names into a dictionary and sort them.

E.3:

In part of this exercise, you will use regular expression.

i. Write a program with regular expression that joins numbers if there is a space between them (e.g., "12 0 mph is a very high speed in the 6 6 interstate." to "120 mph is a very high speed in the 66 interstate.")

ii. Write a program with regular expression that find the content in the parenthesise and replace it with "(xxxxx)"

iii. Write a program that find any word ends with "ly".

iv. Write a program that finds all the quotes in the text and prints the strings in between.

v. Write a program that finds all words which has 3,4,5 charters in the text.

v. Write a program that replaces a comma with a hyphen.

vi. Write a program that extract year, month and date from any url which has date init which follows by forward slashes. "https://www.yahoo.com/news/football/wew/2021/09/02/odell–famer-rrrr-on-one-tr-littleball–norman-stupid-author/"

E.4:

Answer all the class exercise questions and submit it (Check the instructions).