



## Homework 2:

- **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:

Write a python script that reads a string from the user input and print the following

- i. Number of uppercase letters in the string.
- ii. Number of lowercase letters in the string
- iii. Number of digits in the string
- iv. Number of whitespace characters in the string

### E.2:

Write a python script that accepts a string then create a new string by shifting one position to left.

Example: input : class 2021 output: lass 2021c

### E.3:

Write a python script that a user input his name and program display its initials.

Hint: Assuming, user always enter first name, middle name and last name.

### E.4:

Write a python script that accepts a string to setup a passwords. The password must have the following requirements

- The password must be at least eight characters long.
- It must contain at least one uppercase letter.
- It must contain at least one lowercase letter.
- It must contain at least one numeric digit.

**E.5:**

Write a python script that reads a given string character by character and count the repeated characters then store it by length of those character(s).

**E.6:**

Write a python script to find all lower and upper case combinations of a given string.  
Example: input: abc output: 'abc', 'abC', 'aBc', ...

**E.7:**

Write a python script that

- i. Read first n lines of a file.
- ii. Find the longest words.
- iii. Count the number of lines in a text file.
- iv. Count the frequency of words in a file.

Hint: first create a test.txt file and dump some textual data in it. Then test your code.

**E.8:**

Answer all the class exercise questions in the GitHub.