INSY 5378: Homework 1 – Part 2

**DUE DATE** : Sept 21, Wed 2016 by 11:59 p.m.

This is the second Python assignment. There are 20 problems. Each problem is 5 points and the total is 100 points.

Instructions:

1. Due is September 21st, Wednesday, 11:59 PM. **\* Late submissions will not be accepted.**
2. Submit your Python code in Blackboard. DO NOT email your homework to me or TA.

**(Initial Setup) Problem 1:**

1. Create a file with name “hw1\_2.py” and download “last.txt” file into the same directory, where “hw1\_2.py” is located. (5)

**Write your Python code in “hw1\_2.py” for Problems 2 to 20.**

1. Open “last.txt” file with “read-only” file mode. (5)
2. Find the number of characters in the file and assign it to “ans3” variable.
3. Find the number of words in the file and assign it to “ans4” variable.
4. Find the number of lines in the file and assign it to “ans5” variable.
5. Count the last names starting with “L” and assign it to “ans6” variable.
6. Count the last names ending with “E” and assign it to “ans7” variable.
7. Count the last names with length 3 and assign it to “ans8” variable.
8. Count the numbers larger than 0.1 and assign it to “ans9” variable.
9. Count the numbers smaller than 0.02 and assign it “ans10” variable.
10. Get the number associated to your last name and assign it to “ans11” variable. If your last name doesn’t appear, “ans11” should be 0.
11. Find the last name that comes last in the dictionary order and assign it to “ans12” variable.
12. Find the last name that comes first in the dictionary order and assign it to “ans13” variable.
13. Find the longest last name and assign it to “ans14” variable.
14. Find the shortest last name and assign it to “ans15” variable.
15. Open a new file “hw1\_2\_answers\_FIRST\_LAST.txt” using “write” mode, where FIRST and LAST should be your first and last names. For example, hw1\_2\_answers\_GENE\_LEE.txt. (5)
16. Write your first name, last name, and email address in the first line of “hw1\_2\_answers\_FIRST\_LAST.txt” file. (5)
17. Write all your answers into the “hw1\_2\_answers\_FIRST\_LAST.txt” file. Each answer will take a line with “answerXX=YY” format. (5)
18. Write “Homework 1 Part 2 is done!!!” in the last line of “hw1\_2\_answers\_FIRST\_LAST.txt” file.
19. Close “ hw1\_2\_answer\_FIRST\_LAST.txt” file. (5)

Your file should look like this:

Gene Lee [gene.lee@uta.edu](mailto:gene.lee@uta.edu)

answer3=XX

answer4=XX

answer5=XX

answer6=XX

answer7=XX

answer8=XX

answer9=XX

answer10=XX

answer11=XX

answer12=XX

answer13=XX

answer14=XX

answer15=XX

Homework 1 part 2 is done!!!