Lab 10 - Dictionaries

Goals

- Work with dictionaries
- File processing

Setup

- Create a new .py file in your desired directory
- Use the following naming convention

```
ITP115_l#_lastname_firstname
(replace # with this lab number)
```

• Your new file must begin with comments in the following format (replace the name and email with your actual information):

```
# Name
# ITP 115, Fall 2016
# Lab L^ (replace ^ with this lab number)
# USC email
```

Requirements

Your program must perform the following:

- Read a file with containing the text of the "Gettysburg Address"
- Using a dictionary, determine the frequency of each letter of the alphabet in the "Gettysburg Address"
- Display an alphabetical list of each letter and the number of times it occurred
- In addition, determine and display the letter(s) which occurred the most
- Your program must use a main function with no global variables
- Use the text file "gettysburg.txt"

Sample Output

```
Displaying letter frequency of the Gettysburg Address
a 102
b 14
c 31
d 58
... (rest of the alphabet appears here)
w 28
y 10
-----
The letter(s) 'e' appeared 165 times
```

Deliverables and Submission Instructions

- A compressed folder (zip file) containing you Python code. This can be done by:
 - a. Windows (you must find the folder on your computer—this can't be done within PyCharm):
 - i. Select your lab file
 - ii. Right click
 - iii. Send to ->
 - iv. Compressed (zipped) folder
 - v. Rename this folder with the following name:

ITP115_l#_lastname_firstname

(replace # with this assignment number)

- vi. Submit this zipped folder through Blackboard
- b. OSX (you must find the folder on your computer—this can't be done within PyCharm):
 - i. Select your lab file
 - ii. Right click
 - iii. Compress 1 item
 - iv. Rename this folder with the following name:

ITP115_l#_lastname_firstname

(replace # with this assignment number)

v. Submit this zipped folder through Blackboard