

## CS 101 Homework 3-27-2022

*Save your code as lastname-homework.py and submit on Google Classroom*

### **Task 0**

Install VADER: `pip install vaderSentiment` (using Anaconda prompt). We will use it in class next time we meet.

### **Task 1**

Open the “War and Peace” text file in Python. Make sure to implement proper error handling and use “with open” approach when loading the text.

### **Task 2**

Remove all punctuation from your text. Make all words lower case. Generate a list of all words from the book’s text similar to how we did it in class using `.split()` method.

### **Task 3**

What is more common in the book: “war” or “peace”? (which word is more frequent). Print how many times “war” is used and how many times “peace” is used.

### **Task 4**

Generate a dictionary of the most frequent words (the key) and how many times they are used in the text (the value).

### **Task 5**

Delete all the stopwords from the dictionary.

### **Task 6**

Delete all the words that appear in the book less than 10 times.

### **Task 7**

Delete all the words that are less than three characters.

### **Task 8**

Print 50 most frequent words in the text and how many times they are used. Make sure to print each word on a new line with the number of times it is used next to it.