

## CS Homework #24: Import. Writing to files.

Deadline: 4/25/2020, 9:00 pm.

Save your code as `lastname_homework24.py` and submit on **GOOGLE CLASSROOM**

### Task 1

Import stopwords (make sure the file `stopwords.py` is located in your current working directory). Save the list of stopwords in a new file `stopwords.txt`. Make sure to implement error handling (try except).

### Task 2

Load `hamlet.txt` and create a word list. If you know how to do this, create a clean word list, that is, remove all punctuation and make all words lower case (this is something that you should have done in the previous homework; consult class notes from the previous class).

### Task 3

Create a dictionary `hdict` where the “keys” are the stopwords and the values are the number of times each stopword is used in “Hamlet”. It should look like this:

```
{'i': 633, 'me': 235, 'my': 520, 'myself': 12, .... and so on
```

### Task 4

Using `hdict` create a new list using the following code:

```
hlist = sorted(hdict.items(), key = lambda x: x[1], reverse = True)
```

What exactly is `hlist`? What are its elements? (Respond to this question in your code using comments)

### Task 5

Using the first 5 elements of `hlist`, save 5 files as follows:

- Each file name should have the format “`word_stopword.txt`”, for example: `word_the.txt` if the stopword is “the”.
- Each file content should look like this:

Word `<stopword>`. Number of times used: `<number of times the stopword is used>`.

For example, for `word_the.txt`, the file contents will be:

Word: the. Number of times used: 1091.