## Alice+file-cleaned+up.py

```
# coding: utf-8
# In[3]:
#open the file
f = open('Alice.txt', 'r')
# In[1]:
#for line in f:
     print line
# In[30]:
#bring cursor back to the front of the file
#f. seek(0)
# In[36]:
#Create an empty list to add words in
word_list = []
# split lines into words
for line in f:
    for words in line.split():
#lowercase all words for number counting later, and add all the words to the empty
list
       word_list = word_list + [words.lower()]
#print word_list
# In[41]:
# optional: we can sort out the unique elements in word_list
# word_set = set(word_list)
# print word_set
# In[47]:
# create empty counter
counter = []
# count the occurance of all the elements in word_list
for word in word_list:
    counter = counter + [word_list.count(word)]
#print counter
# In[50]:
# create tuples list for (word, counter)
tuples = zip(word_list, counter)
#print tuples
# In[54]:
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# keep only the unique tuples
uni que_tupl es = set(tupl es)
#print uni que_tupl es
# In[58]:
# create empty dictionary for later sorting based on dictionary item values
pairs = \{\}
# add words as the keys and their counters and values
for element in unique_tuples:
    pai rs[el ement[0]]=el ement[1]
#print pairs
# In[62]:
# sort the dictionary by values in descending orders
import operator
                                                                              True)
sorted_pairs = sorted(pairs.items(), key=operator.itemgetter(17,
# note that the resulted sequence is a list and not dictionary any more
#print sorted_pairs
# In[64]:
# take the top 20 results for printing
s = sorted_pairs[0:20]
#print s
# In[66]:
# depackaging the tuples and print out the results in the preferred format
for element in s:
    print '%s --- %s'%(element[0], element[1])
# In[34]:
#close the file
# (f. close()
# In[ ]:
```