# Study

## 20.8.1: not really satisfy with this

letter\_counts = {}

users\_text = input("Please enter a string:").lower()

for letter in users\_text:

letter\_counts[letter] = letter\_counts.get(letter, 0) +1

letter\_items = list (letter\_counts.items())

letter\_items.sort()

print(\*letter\_items, sep='\n')

## 20.8.2 Give the Python interpreter’s response to each of the following from a continuous interpreter session:

(a) >>> d = {"apples": 15, "bananas": 35, "grapes": 12}

>>> d ["bananas"]

* 35

(b) >>> d["oranges"] = 20

>>> len(d)

* 4
* Có 4 item in d.

(c) >>> "grapes" in d

12

(d) >>> d["pears"]

Error

(e) >>> d.get("pears", 0)

0

(f) >>> fruits = list(d.keys())

>>> fruits.sort()

>>> print(fruits)

[Apples, Banana, Grapes]

(g) >>> del d["apples"]

>>> "apples" in d False

def add\_fruit(inventory, fruit, quantity=0):

inventory[fruit] = inventory.get(fruit, 0) + quantity

return (inventory)

new\_inventory = {}

add\_fruit(new\_inventory, "strawberries", 10)

print(new\_inventory["strawberries"])

add\_fruit(new\_inventory, "strawberries", 25)

print(new\_inventory["strawberries"])

## 20.8.3

"""Alice\_words"""

file = open('alice\_words.txt','w')

text = input('Alice’s Adventures in Wonderland:').lower()

word\_count={}

from collections import Counter

word\_count = Counter (text.split())

var = ('{:15}{:7}'.format('Word','Count'))

var1= []

for (word,occurance) in sorted(word\_count.items()):

x = ({'{:15}{:3}'.format(word,occurance)})

var1.append(x)

var1.sort()

with open('alice\_words.txt', 'a') as out:

out.write(var + '\n')

out.write('-' \*22)

out.write('\n')

for item in var1:

out.write("{}\n".format(item))

|  |  |
| --- | --- |
| *6iporAnbT.jpg* | ***Serious exercises*** |

## Exercise 1:

inventory = {

'gold' : 500,

'pouch' : ['flint', 'twine', 'gemstone'],

'backpack' : ['xylophone', 'dagger', 'bedroll', 'bread loaf'],

'pocket' : ['seashell', 'strangeberry', 'lint']

}

inventory['backpack'].sort()

print (inventory['backpack'])

print()

inventory['backpack'].remove('dagger')

print (inventory['backpack'])

print()

inventory['gold'] +=50

print (inventory['gold'])

## Exercise 2

prices = {

'banana' : 4,

'apple' : 2,

'orange' : 1.5,

'pear' : 3

}

purchased\_items = [

['banana', 5],

['orange', 3]

]

for item in purchased\_items:

print("{0} - Quantity: {1}, Unit price: {2}".format(

item[0],

item[1],

prices[(item[0])]))

total = 0

for item in purchased\_items:

console = item[1] \* prices[(item[0])]

total += console

print()

print ("The purchase would be: ", total)