Ex-1. Python Data Structure

IDLE Shell을 실행시켜 interactive mode에서 coding하면서 맞는 답을 찾아 보자. 각 물음에 대해 문제를 해결하는 code와 결과를 copy하여, 문항 아래에 붙여 넣은 후 이 파일을 제출한다.

**서술문:**

The prices of fruits in the market are as follows:  
>>> prices = {‘apple’: 1500, ‘orange’: 1000, ‘pear’: 2000, ‘banana’ : 500, ‘pineapple’: 3000}

I put the following fruits into my basket.  
>>> my\_basket = ['apple', 'orange', 'apple', 'pear', 'orange', ‘banana']

## How many fruits in my basket?

>>> len(my\_basket)

6

## Are there any oranges in my basket?

>>> fruit\_finding = 'orange'

>>> fruit\_finding in my\_basket

True

## Are there any apples or oranges in my basket?

>>> fruit\_finding\_first = 'apple'

>>> fruit\_finding\_second = 'orange'

>>> fruit\_finding\_first in my\_basket or fruit\_finding\_second in my\_basket

True

## Put a pineapple into my basket if it is not in the basket?

>>> fruit\_finding = 'pineapple'

>>> if fruit\_finding not in my\_basket:

my\_basket.append('pineapple')

>>> my\_basket # 파인애플이 들어갔는지 확인

['apple', 'orange', 'apple', 'pear', 'orange', 'banana', 'pineapple']

## What kinds of fruits are in my basket?

>>> my\_basket\_sorted = list(set(my\_basket)) #세트를 활용하여 중복하는 요소 제거

>>> my\_basket\_sorted

['orange', 'apple', 'banana', 'pear', 'pineapple']

## Show the name of fruits in my basket ending with ‘e’. (Do not show the same names twice)

>>> for k in my\_basket\_sorted:

if k[-1]=='e':

print(k)

orange

apple

pineapple

## How many apples are in my basket?

>>> my\_basket.count('apple')

2

## Count the number for each kind of fruits in my basket. (You may represent them as a dict)

>>> number\_of\_each\_fruits = {'apple':0, 'orange':0, 'pear':0, 'banana':0, 'pineapple':0}

>>> for k in my\_basket:

for key in number\_of\_each\_fruits:

if k==key :

number\_of\_each\_fruits[key] += 1

>>> number\_of\_each\_fruits

{'apple': 2, 'orange': 2, 'pear': 1, 'banana': 1, 'pineapple': 1}

## How much do I pay for the fruits in my basket.

>>> total\_prices = 0 # 합계 변수 선언

>>> for k in my\_basket:

total\_prices += prices[k]

>>> total\_prices

10500