## BAF515 금공프3 Quiz 2

## 20249433 MFE 최재필

1.

 Create a dictionary 'icecream' with [price, inventory] for each ice cream item by the following code.

```
icecream={'cheery': [12,100], 'cookies': [18,200], 'greentea': [15,140], 'mango': [10,200]}
```

- (1) Change the price of 'cookies' as 13.
- (2) Add the following information to the dictionary 'icecream'.
  - 'Strawberry' is priced at 12 and inventory is 170.
  - 'pistachio' is priced at 15 and inventory is 100.

```
In [ ]: icecream = {
    'cheery': [12, 100], # price, inventory
    'cookies': [18, 200],
    'greentea': [15, 140],
    'mango': [10, 200],
}
```

(1)

```
In [ ]: icecream['cookies'][0] = 13
         icecream
Out[ ]: {'cheery': [12, 100],
          'cookies': [13, 200],
          'greentea': [15, 140],
          'mango': [10, 200]}
        (2)
In [ ]: icecream['Strawberry'] = [12, 170]
         icecream['pistachio'] = [15, 100]
        icecream
Out[ ]: {'cheery': [12, 100],
          'cookies': [13, 200],
          'greentea': [15, 140],
          'mango': [10, 200],
          'Strawberry': [12, 170],
          'pistachio': [15, 100]}
        2.
```

2. Create 'd1' and 'd2' by the following code.

```
d1={'key1': 1, 'key2': 3, 'key3': 2, 'key10': 7 }
d2={'key3': 1, 'key2': 2, 'key7': 2, 'key5': 4, 'key1': 7, 'key9': 8, 'key0': 7}
```

- (1) Select the largest two values of the dictionary 'd2'.
- (2) Create a set of values which are the unique values of 'd2'.
- (3) Write code that returns True if keys of 'd1' are all contained in the key of 'd2' and False otherwise.
- (4) Create a set of values which are common in both 'd1' and 'd2'.

```
In [ ]: d1 = {
        'key1': 1,
        'key2': 3,
        'key3': 2,
        'key10': 7,
}

d2 = {
        'key3': 1,
        'key2': 2,
        'key7': 2,
        'key5': 4,
        'key1: 7,
        'key9': 8,
        'key0': 7,
}
```

```
(1)
In [ ]: sorted(list(d2.values()))[-2:]
        [7, 8]
Out[ ]:
        (2)
In [ ]: set(d2.values())
Out[ ]: {1, 2, 4, 7, 8}
```

(3)

```
In [ ]: if set(d1.keys()) <= set(d2.keys()):</pre>
              print('True')
         else:
             print('False')
```

False

**(4)** 

```
In [ ]: set(d1.values()) & set(d2.values())
Out[ ]: {1, 2, 7}
```

3.

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3. For any arbitrary string object A, if the first character of A is '#', we want it to be replaced with '\*'. Otherwise, we want to add '\*' as the first character of A. Write appropriate code using an if statement for this.

4.

4. Calculate the following by using 'for' loop.

$$\sum_{i=1}^{10} i^4$$

```
In []: n = 10
    summation = 0
    for i in range(1, n+1):
        summation += i**4
    summation
Out[]: 25333
```

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