

Quiz #2

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

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