

- description :
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# Section04-4
# ( )
# ,

# ( X, X, 0, 0)
# Key, Value (Json) -> MongoDB

#
print('#===          ===#')
a = {'name': 'Kim', 'phone': '01012345678', 'birth': 870124}
b = {0: 'Hello python!'}
c = {'arr': [1, 2, 3, 4]}

print('#=== type,      ===#')
print('a - ', type(a), a)
print('b - ', type(b), b)
print('c - ', type(c), c)

print()

#
print('#===          ===#')
print('a - ', a['name']) # X ->
print('a - ', a.get('name')) # X -> None
print('b - ', b[0])
print('b - ', b.get(0))
print('c - ', c['arr'])
print('c - ', c['arr'][3])
print('c - ', c.get('arr'))

print()

# 가
print('#===          가 ===#')
a['address'] = 'seoul'
```

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print('a - ', a)
a['rank'] = [1, 2, 3]
print('a - ', a)

print()

# dict_keys, dict_values, dict_items :      (iterate)      가
# dict_items -> dict
print('#=== dict_keys, dict_values, dict_items      ===#')
print('a - ', a.keys())
print('b - ', b.keys())
print('c - ', c.keys())

print()

print('a - ', list(a.keys()))
print('b - ', list(b.keys()))
print('c - ', list(c.keys()))

print()

print('a - ', a.values())
print('b - ', b.values())
print('c - ', c.values())

print()

print('a - ', list(a.values()))
print('b - ', list(b.values()))
print('c - ', list(c.values()))

print()

print('a - ', a.items())
print('b - ', b.items())
print('c - ', c.items())

print()

print('a - ', list(a.items()))
print('b - ', list(b.items()))
print('c - ', list(c.items()))

print()

print('a - ', 'name' in a)
print('a - ', 'addr' in a)

print()
# Key 가      index      .
```

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# index          가
print('#== dict_keys values          index          == #')
temp = list(a.keys())
print(temp[1:3])
# Key 가          index

print()
print()

print('#====          ==== #')
# (Sets)          ( X, X)

#
a = set()
b = set([1, 2, 3, 4])
c = set([1, 4, 5, 6])
d = set([1, 2, 'Pen', 'Cap', 'Plate'])

print('#=== type,          === #')
print('a - ', type(a), a)
print('b - ', type(b), b)
print('c - ', type(c), c)
print('d - ', type(d), d)

print()

#
print('#===          === #')
t = tuple(b)
print('t - ', type(t), t)
print('t - ', t[0], t[1:3])

print()

#
print('#===          === #')
l = list(c)
print('l - ', type(l), l)
print('l - ', l[0], l[1:3])

print()

print("#===          ===")
#
s1 = set([1, 2, 3, 4, 5, 6])
s2 = set([4, 5, 6, 7, 8, 9])

print("#==          ==")
print('l - ', s1 & s2)
print('l - ', s1.intersection(s2))

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print("# ==      ==")
print('l - ', s1 | s2)
print('l - ', s1.union(s2))

print("# ==      ==")
print('l - ', s1 - s2)
print('l - ', s1.difference(s2))

print()

print("# ===      가 /      ===")
# 가 &
s1 = set([1, 2, 3, 4])
s1.add(5)
print('s1 - ', s1)

s1.remove(2)
print('s1 - ', s1)
```

```
# ===      === #
#=== type,      === #
a - <class 'dict'> {'name': 'Kim', 'phone': '01012345678', 'birth': 870124}
b - <class 'dict'> {0: 'Hello python!'}
c - <class 'dict'> {'arr': [1, 2, 3, 4]}

# ===      === #
a - Kim
a - Kim
b - Hello python!
b - Hello python!
c - [1, 2, 3, 4]
c - 4
c - [1, 2, 3, 4]

# ===      가 === #
a - {'name': 'Kim', 'phone': '01012345678', 'birth': 870124, 'address': 'seoul'}
a - {'name': 'Kim', 'phone': '01012345678', 'birth': 870124, 'address': 'seoul', 'rank': [1, 2, 3]}

#=== dict_keys, dict_values, dict_items      === #
a - dict_keys(['name', 'phone', 'birth', 'address', 'rank'])
b - dict_keys([0])
c - dict_keys(['arr'])

a - ['name', 'phone', 'birth', 'address', 'rank']
b - [0]
```

```

c - ['arr']

a - dict_values(['Kim', '01012345678', 870124, 'seoul', [1, 2, 3]])
b - dict_values(['Hello python!'])
c - dict_values([[1, 2, 3, 4]])

a - ['Kim', '01012345678', 870124, 'seoul', [1, 2, 3]]
b - ['Hello python!']
c - [[1, 2, 3, 4]]

a - dict_items([('name', 'Kim'), ('phone', '01012345678'), ('birth', 870124), ('address', 'seoul'), ('rank', [1, 2, 3])])
b - dict_items([(0, 'Hello python!')])
c - dict_items([('arr', [1, 2, 3, 4])])

a - [('name', 'Kim'), ('phone', '01012345678'), ('birth', 870124), ('address', 'seoul'), ('rank', [1, 2, 3])]
b - [(0, 'Hello python!')]
c - [('arr', [1, 2, 3, 4])]

a - True
a - False

#== dict_keys    values                index                ==#
['phone', 'birth']

#====          =====#
#=== type,          ===#
a - <class 'set'> set()
b - <class 'set'> {1, 2, 3, 4}
c - <class 'set'> {1, 4, 5, 6}
d - <class 'set'> {1, 2, 'Plate', 'Cap', 'Pen'}

#===          ===#
t - <class 'tuple'> (1, 2, 3, 4)
t - 1 (2, 3)

#===          ===#
l - <class 'list'> [1, 4, 5, 6]
l - 1 [4, 5]

#===          ===#
#==          ==
l - {4, 5, 6}
l - {4, 5, 6}
#==          ==
l - {1, 2, 3, 4, 5, 6, 7, 8, 9}
l - {1, 2, 3, 4, 5, 6, 7, 8, 9}
#==          ==
l - {1, 2, 3}
l - {1, 2, 3}

```

```
# === 가 / ===  
s1 - {1, 2, 3, 4, 5}  
s1 - {1, 3, 4, 5}
```

Tip

, [python](#), ,

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