

202001555 지은미

```
In [18]: from IPython.core.interactiveshell import InteractiveShell
InteractiveShell.ast_node_interactivity="all"
```

```
In [51]: #01
x=[0,1,2,3,4,5,6,7,8,9]
x[:3]
x[7:]
x[1:9]
x[0:10:3]
x[5:2:-1]
```

Out[51]: [0, 1, 2]

Out[51]: [7, 8, 9]

Out[51]: [1, 2, 3, 4, 5, 6, 7, 8]

Out[51]: [0, 3, 6, 9]

Out[51]: [5, 4, 3]

```
In [17]: #2
from collections import Counter

text= ["never", "never", "never", "give", "up"]

cnt=Counter(text)
cnt
```

Counter({'never': 3, 'give': 1, 'up': 1})

```
In [63]: #3
class Father:
    def handsome(self):
        print("잘생기셨습니다!")

class Son(Father):
    def tall(self):
        print("키가 큅니다")

class Daughter(Father):

    def handsome(self):
        print("예쁨니다")

son=Son()
son.tall()
son.handsome()

girl=Daughter()
girl.handsome()
```

키가 큅니다
잘생기셨습니다!
예쁨니다

```
In [64]: #4
def f(x):
    return 2*x
```

```
def ten(f, x):
    return f(x)*10

print(ten(f,2))
```

40

```
In [85]: #5
import numpy as np
onehots = dict()
onehots['cat'] = [1,0,0,0]
onehots['the'] = [0,1,0,0]
onehots['dog'] = [0,0,1,0]
onehots['sat'] = [0,0,0,1]
onehots
sentence = ['the','cat','sat']
x = np.array([0, 0, 0, 0])
for name in sentence:
    for result, i in enumerate(onehots[name]):
        if i == 1:
            x[result] = 1
print("Sentence Encoding: " + str(x))
```

```
Out[85]: {'cat': [1, 0, 0, 0],
          'the': [0, 1, 0, 0],
          'dog': [0, 0, 1, 0],
          'sat': [0, 0, 0, 1]}
Sentence Encoding: [1 1 0 1]
```