

201600779 김영민

1번

In [1]:

```
x = [i for i in range(10)]
```

In [2]:

```
print(x[:3])
```

```
[0, 1, 2]
```

In [3]:

```
print(x[-3:])
```

```
[7, 8, 9]
```

In [4]:

```
print(x[1:9])
```

```
[1, 2, 3, 4, 5, 6, 7, 8]
```

In [5]:

```
print(x[::3])
```

```
[0, 3, 6, 9]
```

In [6]:

```
print(x[-5:-8:-1])
```

```
[5, 4, 3]
```

2번

In [7]:

```
my_list = [  
    1, 2, 3,  
    4, 5, 6,  
    7, 8, 9,  
    10  
]
```

In [8]:

```
odd_numbers = []  
for i in range(10):  
    if i % 2 == 1:  
        odd_numbers.append(i)
```

In [9]:

```
odd_squares = list(map(lambda x: x**2, odd_numbers))  
print(odd_squares)
```

```
[1, 9, 25, 49, 81]
```

3번

In [10]:

```
class Father:  
    def __init__(self):  
        pass  
    def handsome(self):  
        print('잘생기셨습니다')  
        pass  
class Son(Father):  
    def __init__(self):  
        pass  
    def tall(self):  
        print('키가 큼니다')  
class Daughter(Father):  
    def __init__(self):  
        pass  
    def handsome(self):  
        print('예쁩니다')
```

In [11]:

```
son = Son()  
son.tall()
```

```
키가 큼니다
```

In [12]:

```
son.handsome()
```

```
잘생기셨습니다
```

In [13]:

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

```
예쁩니다
```

4번

In [14]:

```
list1 = ['x', 'y', 'z']  
list2 = [1, 2, 3]
```

In [15]:

```
list3 = [(i,j) for i,j in zip(list1,list2)]
```

In [16]:

```
list4 = list(map(lambda x: x[0], list3))  
list5 = list(map(lambda x: x[1], list3))
```

In [17]:

```
list3
```

Out[17]:

```
[('x', 1), ('y', 2), ('z', 3)]
```

In [18]:

```
list4
```

Out[18]:

```
['x', 'y', 'z']
```

In [19]:

```
list5
```

Out[19]:

```
[1, 2, 3]
```

5번

In [21]:

```
def decuple(f):  
    return f(x)*10  
  
def f(x):  
    return 2*x  
  
x= 3  
g= decuple(f)  
print(g)
```

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