201600779 김영민

1번

In [1]:

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

In [2]:

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

[0, 1, 2]

In [3]:

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

[7, 8, 9]

In [4]:

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

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

In [5]:

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

[0, 3, 6, 9]

In [6]:

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

[5, 4, 3]

2번

In [7]:

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

In [8]:

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

In [9]:

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

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

3번

In [10]:

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

In [11]:

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

키가 큽니다

In [12]:

```python
son.handsome()
```

잘생기셨습니다

In [13]:

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

예쁩니다

4번

In [14]:

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

In [15]:

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

In [16]:

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

In [17]:

```python
list3
```

Out[17]:

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

In [18]:

```python
list4
```

Out[18]:

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

In [19]:

```python
list5
```

Out[19]:

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

5번

In [20]:

```python
# x = 5
# def f(x):
#     return 2*x
```

In [28]:

```python
def f(x):
    return 2*x
def decuple(f):
    return 10*f
decuple(f(3))
```

Out[28]:

```
60
```

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