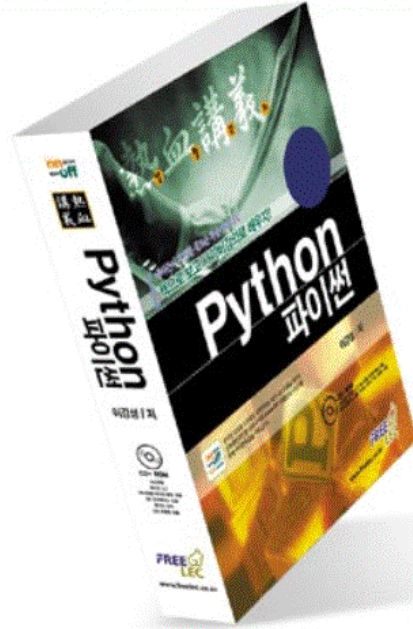熱血講義

프리렉의 열혈강의 시리즈

# Python 파이썬

1

# Python

❖ 8
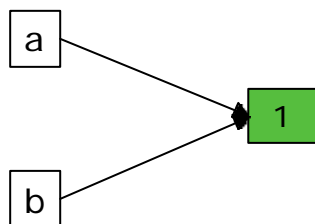
:

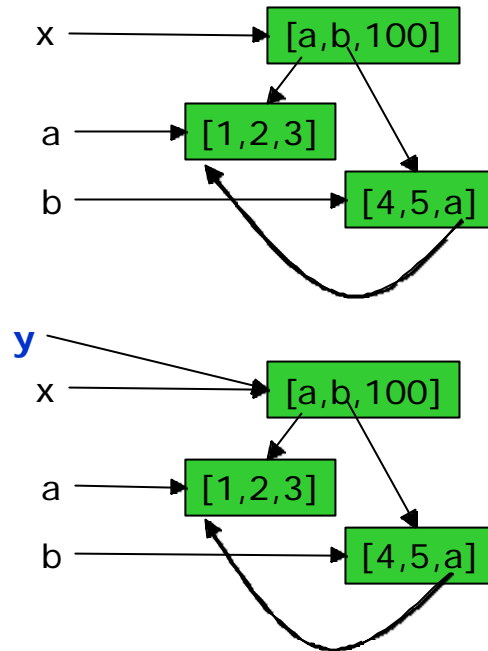( gslee@mail.gwu.ac.kr )

2

❖

1.
2.

3

# 8-1

●

➢
```
>>> a = 1
>>> b = a
```
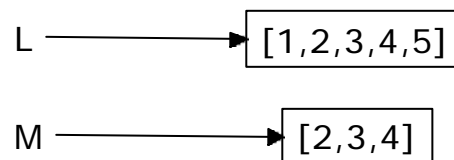


4

# 8-1

```
>>> a = [1,2,3]
>>> b = [4,5,a]
>>> x = [a,b,100]
>>> y = x
```



5

# 8-1

```
>>> L = [1,2,3,4,5]
>>> M = L[1:4]
```



6

# 8-1

- **copy**
  - (shallow copy)
    - ▪
  - (deep copy)
    - ▪
  - ➢

---

# 8-1

- ●

```
>>> import copy
>>> a = [1,2,3]
>>> b = [4,5,a]
>>> x = [a,b, 100]

>>> y = copy.copy(x)
```

x ⟶ [a,b,*]

a ⟶ [1,2,3]

b ⟶ [4,5,a]  100

y ⟶ [a,b,*]

# 8-1

●
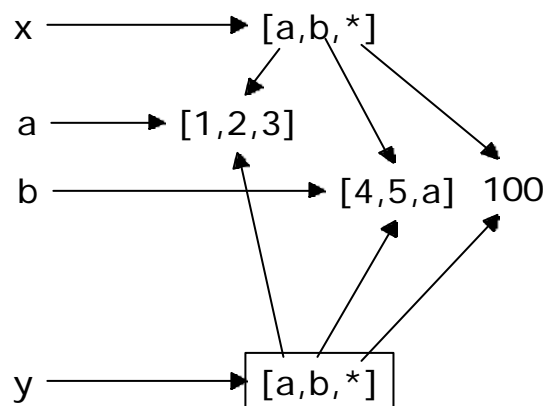
```
>>> import copy
>>> a = [1,2,3]
>>> b = [4,5,a]
>>> x = [a,b, 100]
>>> y = copy.deepcopy(x)
```

x  ⟶  [a,b,100]      y  ⟶  [a,b,100]

a  ⟶  [1,2,3]         [1,2,3]

b  ⟶  [4,5,a]         [4,5,a]

9

●

●

●

●     ←→

●

●

10

●
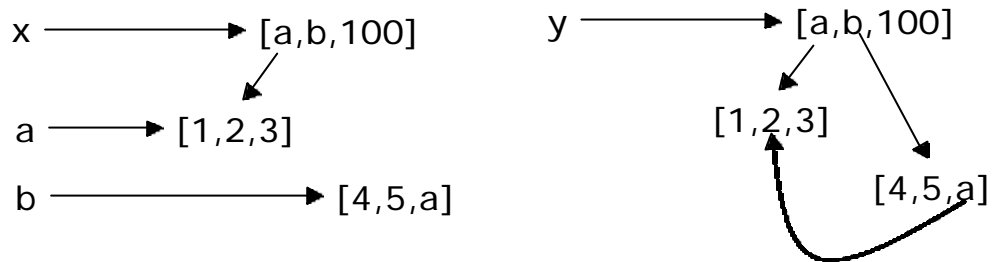
➢ **int()**

```
>>> s = '1234'
>>> i = 10
>>> f = 4.56
>>> l = 12345678L
>>>
>>> print int(f), int(l), int(s)
4 12345678 1234
```

➢

- **int()-**
- **round() –**
- **math.floor() –**
- **math.ceil() –**

11

●

➢ **float() –**

➢ **long() –**

➢ **complex() –**

12

●                       →         – **list()**

●                       →         – **tuple()**

```
>>> t = (1,2,3,4)
>>> l = [5,6,7,8]
>>> s = 'abcd'

>>> print list(t), list(s)
[1, 2, 3, 4] ['a', 'b', 'c', 'd']

>>> print tuple(l), tuple(s)
(5, 6, 7, 8) ('a', 'b', 'c', 'd')
```

13

---

● **str(obj)**
  ➢         **(informal)**
  ➢  **print**

● **repr(obj)**
  ➢       **(formal)**

● **`obj` - repr(obj)**
```
>>> print str(l), str(t), str(s)
[5, 6, 7, 8] (1, 2, 3, 4) abcd
>>> print repr(l), repr(t), repr(s)
[5, 6, 7, 8] (1, 2, 3, 4) 'abcd'
```

● **str   repr**
```
>>> print str('spam'), str(5L), str(0.1)
spam 5 0.1  ←          12
>>> print repr('spam'), repr(5L), repr(0.1)
'spam' 5L 0.10000000000000001 ←          17
```
14

# ← →

- →
  - **keys(), values(), items()**
- →

```
>>> L = [('one', 1), ('two', 2), ('three', 3)]
>>> D = {}
>>> for k, v in L:
    D[k] = v
>>> D
{'three': 3, 'two': 2, 'one': 1}
```

  - **zip()**

```
>>> keys = ['one', 'two', 'three']
>>> values = [1, 2, 3]
>>> L = zip(keys, values)
>>> L
[('one', 1), ('two', 2), ('three', 3)]
```

- ← →
  - **chr() –** →
  - **ord() –** →

```
>>> chr(97)    #          ->
'a'
>>> ord('a')    #      ->

97
```

- 10
  - int()
  ```
  >>> int('64', 16)  # 16     '64'   10
  100
  >>> int('144', 8)  # 8      '144'   10
  100
  >>> int('101111', 2) # 2     '101111'   10
  47
  >>> int('14', 5)  # 5      '14'   10
  9
  ```
- 10
  - oct() – 8
  - hex() – 16
  ```
  >>> hex(100)
  '0x64'
  >>> oct(100)
  '0144'
  ```

- 10
  - 2
    - p221, 222
  - 
    - p222
- 
  ```
  >>> import locale        #
  >>> locale.setlocale(locale.LC_ALL, "")
  >>> print locale.format("%d", 10030405, 1)

  '10,030,405'
  ```