

## Python

List, tuple, dictionary, set, 그리고 For loop

# Dictionary

```
dictionary_type_variable =
      { key1:value1, key2:value2, key3:value3 }
```

immutable就刊(key)와 mutable就 放(value)으로 难见되어 있는 순イット 敬告 不够。

```
>>> dictionary_type_variable = {}
>>> dictionary_type_variable["addr"] = "Seoul"
>>> print(dictionary_type_variable)
>>> print(dictionary_type_variable["addr"])
```

```
>>> new dict = {
 "brand": "Honda",
 "model": "Civic",
"year": 1995
>>> print(new dict)
>>> print(new dict["model"])
>>> new dict["model"] = "No. 5"
>>> print(new dict)
```

```
>>> Customer_1= {
  'username': 'john-sea',
  'online': false,
  'friends':100
}
>>> 원하는 5자들 이것 저것 연습...
```

## Set

```
set_type_variable =
  { value1, value2, value3 }
```

mutablett 水(value)으로 순イフト 吸으四, 不适应时间性 uniquett 冰室 次生다.

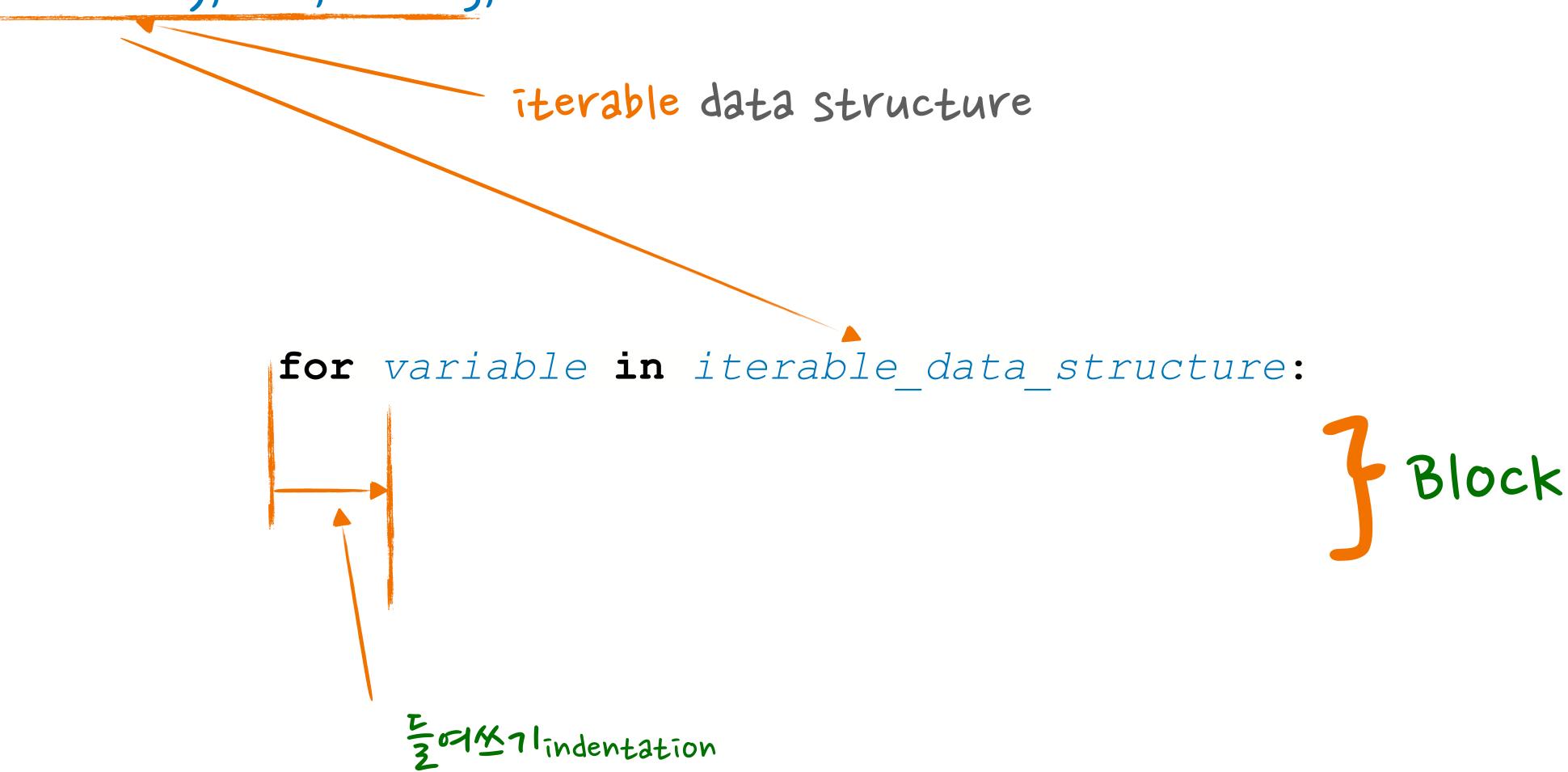
```
>>> aSet = set()
>>>
```

```
set_type_variable =
  { value1, value2, value3 }
```

```
>>> aSet = set()
>>> aSet.add(1)
>>> print(aSet)
>>> aSet.add(2)
>>> print(aSet)
>>> aSet.add(1)
>>> print(aSet)
>>> aSet = {} # Nist(set) = rute 15 to orute, dictionary 1 rute or rute.
>>> print(type(aSet))
```

## Fov loop

For loop is a handy way for iterating over a sequence such as a list, tuple, dictionary, set, string, etc.



```
a = [1, 2, 3, 3, 3, 4, 5, 6]
aSet = set(a)
               List
for x in a:
  print(x, end=" ")
print("")
                 Set
for x in aSet:
  print(x, end=" ")
print("")
```

```
new dict= {
"brand": "Honda",
                           Dictionary
"model": "Civic",
"year": 1995
new_dict["year"] = 2020 Dictionary
for key in new dict:
  print(key, new dict[key])
for key, value in new dict.items():
  print(key, value)
```

```
String
for x in "Hello World":
    print(x, end = "")
                   range()站午:时华里文外(76年)意时室
fruit_list = []
for x in range(1,4):
    fruit list += ["apple"]
    print(fruit list)
```

### range()站午:时华里文外(764)量时至57年站午

#### range (stop)

range (10) # 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

#### range (start, stop)

range (1, 11) # 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

#### range (start, stop, step)

range (0, 20, 2) #0,2,4,6,8,10,12,14,16,18

range (20, 0, -2) # 20, 18, 16, 14, 12, 10, 8, 6, 4, 2

### range() 站午: 时至至文水(对午)量 吐量可午告站午

#### range (stop)

```
range (10) # 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

aList = list(range(10))

print(aList)
```

#### range (start, stop)

```
range(1, 11) # 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

aList = list(range(1, 11))

print(aList)
```

#### range (start, stop, step)

#### print(alist)

66

双定玩, listoton 如大大大大的 我们就是我的动物的 index 是到的你.

66

程午는 2000년 11월 3일에 EHの次다. 오늘(2020년 11월 21일)은 EHのピス1 四根双H 되는 얼얼까?

```
daysOfMonth = [31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31]
days = 0
days += daysOfMonth[monthOfBirthday-1]
if (monthOfBirthday == 2 ):
    if (yearOfBirthday % 4 == 0 and
        yearOfBirthday % 100 != 0 or
        yearOfBirthday % 400 == 0 ):
        days = days + 1
days -= dayOfBirthday
```

```
currentMonth = monthOfBirthday + 1
while (currentMonth <= 12) :
    days += daysOfMonth[currentMonth-1]
    if (currentMonth == 2):
        if (yearOfBirthday % 4 == 0 and
            yearOfBirthday % 100 != 0 or
            yearOfBirthday % 400 == 0 ):
            days = days + 1
    currentMonth+=1
```

```
yearOfBirthday += 1
while (yearOfBirthday < yearOfToday) :</pre>
    days = days + 365
    if (yearOfBirthday % 4 == 0 and
        yearOfBirthday % 100 != 0 or
        yearOfBirthday % 400 == 0 ):
        days = days + 1
    yearOfBirthday += 1
```

```
currentMonth = 1
while (currentMonth < monthOfToday) :</pre>
    days += daysOfMonth[currentMonth-1]
    if (currentMonth == 2):
        if (yearOfBirthday % 4 == 0 and
            yearOfBirthday % 100 != 0 or
            yearOfBirthday % 400 == 0 ):
            days = days + 1
    currentMonth+=1
days += dayOfToday
print(days, "days")
```

"

指午7十岁计 EH可以下时?

"

주어진 바면 nums = [2, 7, 11, 15]가 있을 때 바면 한의 두 가의 원소를 더해 주어진 target = 9에 만족할 때, 해당 이데스 [0, 1]을 보더주는 프로그램을 작성하는.

## Function

### Function

- Built-in Functions
- Define a Function
- lamda

### Function

```
def function name (parameters):
   Statements
[return return value]
def IsLeapYear (year):
 result = (year % 4 == 0 and year % 100 != 0 or year % 100 != 0
400 == 0
  return result
```

### Lambda

```
[lambda name = ] lambda parameters : expression
lambda name (parameters)
isLeapYear = lambda x : (x \% 4 == 0 \text{ and } x \% 100 != 0 \text{ or } x \% 400
== 0) and True or False
print(isLeapYear(2020))
[variable name = ](lambda parameters : expression)
(parameter values)
print((lambda x : (x % 4 == 0 and x % 100 != 0 or x % 400 == 0)
and True or False) (2020))
```

# Q&A