

- description :
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```
# Section05-2
#           (      )
#
#           ->
#           (while, for)
v1 = 1

while v1 < 11:
    print("v1 is :", v1)
    v1 += 1

# 0 ~ 10   v2   for   .
for v2 in range(10):
    print("v2 is :", v2)

# 0~10   v3   for   .
for v3 in range(1, 11):
    print("v3 is :", v3)

# 0~10   2   (      )   v3   for   .
for v4 in range(1, 11, 2):
    print("v4 is :", v4)

# 1 ~ 100

sum1 = 0
cnt1 = 1

while cnt1 <= 100:
    sum1 += cnt1
    cnt1 += 1

print('1 ~ 100   :', sum1) # while
```

```
print('1 ~ 100 :', sum(range(1, 101))) # sum( )
print('1 ~ 100 3 :', sum(range(1, 101, 3)))

# ( 가 )
#
# iterable : range, reversed, enumerate, filter, map, zip

# 1
names = ["Kim", "Park", "Cho", "Lee", "Choi", "Yoo"]

for name in names:
    print("You are", name)

# 2
lotto_numbers = [11, 19, 21, 28, 36, 37]

for number in lotto_numbers:
    print("Your number", number)

# 3
word = 'dreams'

for s in word:
    print('word : ', s)

# 4
my_info = {
    "name": "Kim",
    "age": 33,
    "city": "Seoul"
}

for key in my_info:
    print(key, ":", my_info[key])

for val in my_info.values():
    print(val)

# 5
name = 'KennRY'

for n in name:
    if n.isupper(): # isupper()
        print(n)
    else:
        print(n.upper())

numbers = [14, 3, 4, 7, 10, 24, 17, 2, 33, 15, 34, 36, 38]

# break
```

```
for num in numbers:
    if num == 33:
        print("found : 33!")
        break
    else:
        print("not found : ", num)

# continue
lt = ["1", 2, 5, True, 4.3, complex(4)]

for v in lt:
    if type(v) is float:
        continue

    print("type:", type(v))
    print("multiply by 2:", v * 3)

# for-else
numbers = [14, 3, 4, 7, 10, 24, 17, 2, 33, 15, 34, 36, 38]

for num in numbers:
    if num == 33: # 45
        print("found : 33!")
        break
    else:
        print("not found : ", num)
else:
    print("Not Found 39...")

# flag

f = True
numbers = [14, 3, 4, 7, 10, 24, 17, 2, 33, 15, 34, 36, 38]

while f:
    for v in numbers:
        if v == 33:
            print("found : 33!")
            f = False
            print("not found : ", v)

# else ( else )
# 1

i = 1
while i <= 10:
    print('i : ', i)
    if i == 6:
        break
    i += 1
else:
```

```
print('else block run!')

# 2
j = 1
while j <= 10:
    print('j : ', j)
    if j == 11:
        break
    j += 1
else:
    print('else block run!')

# for

for i in range(1, 11):
    for j in range(1, 11):
        print('{:4d}'.format(i * j), end='')
    print()

#
name = 'Niceman'
print('reversed : ', reversed(name))
print('list : ', list(reversed(name)))
print('list : ', tuple(reversed(name)))
print('list : ', set(reversed(name))) # X
```

```
v1 is : 1
v1 is : 2
v1 is : 3
v1 is : 4
v1 is : 5
v1 is : 6
v1 is : 7
v1 is : 8
v1 is : 9
v1 is : 10
v2 is : 0
v2 is : 1
v2 is : 2
v2 is : 3
v2 is : 4
v2 is : 5
v2 is : 6
v2 is : 7
v2 is : 8
v2 is : 9
```

```
v3 is : 1
v3 is : 2
v3 is : 3
v3 is : 4
v3 is : 5
v3 is : 6
v3 is : 7
v3 is : 8
v3 is : 9
v3 is : 10
v4 is : 1
v4 is : 3
v4 is : 5
v4 is : 7
v4 is : 9
1 ~ 100 : 5050
1 ~ 100 : 5050
1 ~ 100 3 : 1717
You are Kim
You are Park
You are Cho
You are Lee
You are Choi
You are Yoo
Your number 11
Your number 19
Your number 21
Your number 28
Your number 36
Your number 37
word : d
word : r
word : e
word : a
word : m
word : s
name : Kim
age : 33
city : Seoul
Kim
33
Seoul
K
E
N
N
R
Y
not found : 14
not found : 3
not found : 4
```

```
not found : 7
not found : 10
not found : 24
not found : 17
not found : 2
found : 33!
type: <class 'str'>
multiply by 2: 111
type: <class 'int'>
multiply by 2: 6
type: <class 'int'>
multiply by 2: 15
type: <class 'bool'>
multiply by 2: 3
type: <class 'complex'>
multiply by 2: (12+0j)
not found : 14
not found : 3
not found : 4
not found : 7
not found : 10
not found : 24
not found : 17
not found : 2
found : 33!
not found : 14
not found : 3
not found : 4
not found : 7
not found : 10
not found : 24
not found : 17
not found : 2
found : 33!
not found : 33
not found : 15
not found : 34
not found : 36
not found : 38
i : 1
i : 2
i : 3
i : 4
i : 5
i : 6
j : 1
j : 2
j : 3
j : 4
```

```
j : 5
j : 6
j : 7
j : 8
j : 9
j : 10
else block run!
  1  2  3  4  5  6  7  8  9 10
  2  4  6  8 10 12 14 16 18 20
  3  6  9 12 15 18 21 24 27 30
  4  8 12 16 20 24 28 32 36 40
  5 10 15 20 25 30 35 40 45 50
  6 12 18 24 30 36 42 48 54 60
  7 14 21 28 35 42 49 56 63 70
  8 16 24 32 40 48 56 64 72 80
  9 18 27 36 45 54 63 72 81 90
 10 20 30 40 50 60 70 80 90 100
reversed : <reversed object at 0x0000023C36908E80>
list : ['n', 'a', 'm', 'e', 'c', 'i', 'N']
list : ('n', 'a', 'm', 'e', 'c', 'i', 'N')
list : {'e', 'a', 'c', 'i', 'N', 'n', 'm'}
```

## Tip

, [python](#),

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