

- description :
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```

# Section04-2
#           (      )
#           ,      (가      )
#
str1 = "I am Boy."
str2 = 'NiceMan'
str3 = "" "How are you?" ""
str4 = '''Thank you!'''

#
print(" ==      ")
print(type(str1))
print(type(str2))
print(type(str3))
print(type(str4))
print()

#
print(" ==      ")
print(len(str1))
print(len(str2))
print(len(str3))
print(len(str4))
print()

#
str_t1 = ''
str_t2 = str()

print(" ==      ")
print(type(str_t1), len(str_t1))
print(type(str_t2), len(str_t2))
print()

```

```
#

escape_str1 = "Do you have a \"big collection\"?"
escape_str2 = 'What\'s on TV?'
escape_str3 = "What's on TV?"
escape_str4 = 'This is a "book".'

# 1
print(" == ")
print(escape_str1)
print(escape_str2)
print(escape_str3)
print(escape_str4)
print()

# ,
t_s1 = "Tab \tClick!"
t_s2 = "New Line\n Start!!"

# 2
print(r" == '\t'가 ")
print(t_s1)
print(t_s2)
print()

# Raw String
raw_s1 = r'C:\Programs\python3\'
raw_s2 = r"\\a\b\c\d"
raw_s3 = r'\''
raw_s4 = r"\""

# Raw String
print(r" == 'r'가 ")
print(raw_s1)
print(raw_s2)
print(raw_s3)
print(raw_s4)

#
print(" == ")
multi_str1 = \
    """

    """
print(multi_str1)

multi_str2 = \
    """
```

```

    (\) \

    ...
#     ( )
print(multi_str2)

print()

print(" == ")
#
str_o1 = "Niceman"
str_o2 = "Orange"
str_o3 = "this is string example...wow!!! this is really string"
str_o4 = "Kim Lee Park Joo"

print(3 * str_o1)
print(str_o1 + str_o2)
print(dir(str_o1))
print('x' in str_o1) # x가
print('i' in str_o1)
print('e' not in str_o2) # e가
print('0' not in str_o2)

print()
#
print(" == ")
print(str(77))
print(str(10.4))
print(str(True))
print(str(complex(12)))

print()
#
# : https://www.w3schools.com/python/python_ref_string.asp
print(" == ")
print("islower : ", str_o1.islower()) # Bloon
print("Capitalize: ", str_o1.capitalize()) #
print("endswith?: ", str_o2.endswith("s")) # 가 's' Bloon
print("join str: ", str_o1.join(["I'm ", "!"])) #
print("replace1: ", str_o1.replace('Nice', 'Good'))
print("replace2: ", str_o3.replace("is", "was", 3)) # 3
print("sorted: ", sorted(str_o1)) #
print("reversed1: ", reversed(str_o2)) # list
Test
print("reversed2: ", list(reversed(str_o2))) # ( )

print()

print(" == immutable ")
# immutable
im_str = "Good Boy!"

```

```
print(dir(im_str)) # __iter__
#
for i in im_str:
    print(i)

# im_str[0] = "T" # 가(immutable)
print()
print(" == ")
# ( )
# ( )
str_sl = 'Niceboy'

# : , ,
print(str_sl[0:3])
print(str_sl[:len(str_sl)])
print(str_sl[:len(str_sl) - 1])
print(str_sl[:])
# 2
print(str_sl[1:4:2])
print(str_sl[-3:6])
print(str_sl[1:-2])
print(str_sl[::-1])
print(str_sl[::-2])

print()

# immutable
del str_sl

print(" == ")
#
a = 't'
print(ord(a))
print(chr(116))
```

```
==
<class 'str'>
<class 'str'>
<class 'str'>
<class 'str'>

==
9
7
12
10

==
```

```
<class 'str'> 0
<class 'str'> 0
```

```
==
Do you have a "big collection"?
What's on TV?
What's on TV?
This is a "book".
```

```
== '\t'가
Tab      Click!
New Line
Start!!
```

```
== 'r'가
C:\Programs\python3\
\\a\b\c\d
\'
\'
==
```

(\)

```
==
NicemanNicemanNiceman
NicemanOrange
['__add__', '__class__', '__contains__', '__delattr__', '__dir__',
 '__doc__', '__eq__', '__format__', '__ge__', '__getattr__',
 '__getitem__', '__getnewargs__', '__gt__', '__hash__', '__init__',
 '__init_subclass__', '__iter__', '__le__', '__len__', '__lt__', '__mod__',
 '__mul__', '__ne__', '__new
__', '__reduce__', '__reduce_ex__', '__repr__', '__rmod__', '__rmul__',
 '__setattr__', '__sizeof__', '__str__', '__subclasshook__', 'capitalize',
 'casefold', 'center', 'count', 'encode', 'endswith', 'expandtabs', 'find',
 'format', 'format_map', 'index', 'isalnum', 'isalpha', 'isascii',
 'isdecimal', '
isdigit', 'isidentifier', 'islower', 'isnumeric', 'isprintable', 'isspace',
 'istitle', 'isupper', 'join', 'ljust', 'lower', 'lstrip', 'maketrans',
 'partition', 'replace', 'rfind', 'rindex', 'rjust', 'rpartition', 'rsplit',
 'rstrip', 'split', 'splitlines', 'startswith', 'strip', 'swapcase', 'title',
,
translate', 'upper', 'zfill']
False
True
False
```

False

==

77

10.4

True

(12+0j)

==

islower : False

Capitalize: Niceman

endswith?: False

join str: I'm Niceman!

replace1: Goodman

replace2: thwas was string example....wow!!! thwas is really string

sorted: ['N', 'a', 'c', 'e', 'i', 'm', 'n']

reversed1: <reversed object at 0x00000157400F88E0>

reversed2: ['e', 'g', 'n', 'a', 'r', '0']

== immutable

```
['__add__', '__class__', '__contains__', '__delattr__', '__dir__',
 '__doc__', '__eq__', '__format__', '__ge__', '__getattr__',
 '__getitem__', '__getnewargs__', '__gt__', '__hash__', '__init__',
 '__init_subclass__', '__iter__', '__le__', '__len__', '__lt__', '__mod__',
 '__mul__', '__ne__', '__new__', '__reduce__', '__reduce_ex__', '__repr__',
 '__rmod__', '__rmul__', '__setattr__', '__sizeof__', '__str__',
 '__subclasshook__', 'capitalize', 'casefold', 'center', 'count',
 'encode', 'endswith', 'expandtabs', 'find', 'format', 'format_map',
 'index', 'isalnum', 'isalpha', 'isascii', 'isdecimal', 'isdigit',
 'isidentifier', 'islower', 'isnumeric', 'isprintable', 'isspace',
 'istitle', 'isupper', 'join', 'ljust', 'lower', 'lstrip', 'maketrans',
 'partition', 'replace', 'rfind', 'rindex', 'rjust', 'rpartition',
 'rsplit', 'rstrip', 'split', 'splitlines', 'startswith', 'strip',
 'swapcase', 'title', 'translate', 'upper', 'zfill']
```

G

o

o

d

B

o

y

!

==

Nic

Niceboy

Nicebo

Niceboy

```
ie
bo
iceb
yobeciN
Ncby

==
116
t
```

Tip

, [python](#), ,

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