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```
# Section05-1
#              (      )
#

print("type(True) :\t",type(True))
print("type(False) :\t",type(False))

#

#    1
if True:
    print("if True :\t","Yes")   #

if False:
    #              .
    print("False :\t","No")

#    2
if False:
    #              .
    print("if False :\t","You can't reach here")
else:
    #              .
    print("else :\t","Oh, you are here")

#
# >, >=, <, <=, ==, !=


a = 10
b = 0

# ==               .
print("a == b :\t",a == b)
```

```python
# !=
print("a != b :\t",a != b)

# >
print("a > b :\t",a > b)

# >=
print("a >= b :\t",a >= b)

# <
print("a < b :\t",a < b)

# <=
print("a <= b :\t",a <= b)

#
#     : "     ", [     ], (     ), {     }, 1
#       : "", [], (), {}, 0, None

print("#====          ====")
print("#===     ===")
city = ""
if city:
    print("if city = '' :\t","You are in:", city)
else:
    #
    print("if city = '' else :\t","Please enter your city")

city = "Seoul"
if city:
    print("if city 'Seoul' :\t","You are in:", city)
else:
    #
    print("if city 'Seoul' else :\t","Please enter your city")

print()
#
# and, or, not
print("#===          ===")

a = 100
b = 60
c = 15

print('and ''a > b and b > c'':\t', a > b and b > c)  # a > b > c
print('or ''a > b or b > c'':\t', a > b or b > c)
print('not ''not a > b'':\t', not a > b)
print('not ''not b > c'':\t', not b > c)
print('not True :\t',not True)
print('not False :\t',not False)
```

```python
#       ,      ,
#      >       >

print('3 + 12 > 7 + 3 :\t', 3 + 12 > 7 + 3)
print('5 + 10 * 3 > 7 + 3 * 20 :\t', 5 + 10 * 3 > 7 + 3 * 20)
print('5 + 10 > 3 and 7 + 3 == 10 :\t', 5 + 10 > 3 and 7 + 3 == 10)
print('5 + 10 > 0 and not 7 + 3 == 10 :\t', 5 + 10 > 0 and not 7 + 3 == 10)

print()

print("#===          ===")

score1 = 90
score2 = 'A'

#
if score1 >= 90 and score2 == 'A':
    print("if score1 >= 90 and score2 == 'A' :\t","             .")
else:
    print("if score1 >= 90 and score2 == 'A' else :\t","           .")

id1 = "gold"
id2 = "admin"
grade = 'super'

if id1 == "gold" or id2 == "admin":
    print("if id1 == gold or id2 == admin :\t","              ")

if id2 == "admin" and grade == "super":
    print("if id2 == admin and grade == super :\t","              ")

is_work = False

if not is_work:
    print("if not is_work :\t","is work!")

print()

print("#===          ===")
#
num = 90

if num >= 70:
    print("if num >= 70 :\t","num ? ", num)
elif num >= 60:
    print("elif num >= 60 :\t","num ? ", num)
else:
    print("else :\t","default num")

print()
```

```python
print("#===          ===")
#

age = 27
height = 175

if age >= 20:
    if height >= 170:
        print(" :\t","A             ")
    elif height >= 160:
        print(" :\t","B           ")
    else:
        print(" :\t","          ")
else:
    print(" :\t","20              ")

print()
# in, not in

q = [1, 2, 3]
w = {7, 8, 9, 9}
e = {"name": 'Kim', "city": "seoul", "grade": "B"}
r = (10, 12, 14)

print("1 in q :\t",1 in q)
print("6 in w :\t",6 in w)
print("12 not in r :\t",12 not in r)
print("name in e :\t","name" in e)  # key
print("seoul in e.values() :\t","seoul" in e.values())  # value
```

```
type(True) :     <class 'bool'>
type(False) :    <class 'bool'>
if True :        Yes
else :   Oh, you are here
a == b :         False
a != b :         True
a > b :  True
a >= b :         True
a < b :  False
a <= b :         False
#====              ====
#===     ===
if city = '' else :      Please enter your city
if city 'Seoul' :        You are in: Seoul

#===          ===
and a > b and b > c:      True
```

```
or a > b or b > c:          True
not not a > b:     False
not not b > c:     False
not True :         False
not False :        True
3 + 12 > 7 + 3 :            True
5 + 10 * 3 > 7 + 3 * 20 :          False
5 + 10 > 3 and 7 + 3 == 10 :      True
5 + 10 > 0 and not 7 + 3 == 10 :          False

# = = =           = = =
if score1 >= 90 and score2 == 'A' :                 .
if id1 == gold or id2 == admin :
if id2 == admin and grade == super :
if not is_work :          is work!

# = = =         = = =
if num >= 70 :    num ?   90

# = = =         = = =
 :        A

1 in q :          True
6 in w :          False
12 not in r :     False
name in e :       True
seoul in e.values() :     True
```

Tip

, [python](#),