

- description : python          print
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```

# Section04-3
#          (      )
#          ,

print('#====          ====#')
#          (    0,    0,    0,    0)

#
a = []
b = list()
c = [1, 2, 3, 4]
d = [10, 100, 'Pen', 'Cap', 'Plate']
e = [10, 100, ['Pen', 'Cap', 'Plate']]

#
print('#==          ==#')
print('d - ', type(d), d)
print('d - ', d[1])
print('d - ', d[0] + d[1] + d[1])
print('d - ', d[-1])
print('e - ', e[-1][1])
print('e - ', list(e[-1][1]))

print()

#
print('#==          ==#')
print('d - ', d[0:3])
print('d - ', d[2:])
print('e - ', e[2][1:3])

print()

#
print('#==          ==#')

```

```
print('c + d - ', c + d)
print('c * 3 - ', c * 3)
# print("c[0] + 'hi' - ", c[0] + 'hi') # c[0] str
print("'hi' + c[0] - ", 'hi' + str(c[0]))

print()

#
print('# == , == #')
c[0] = 4
print('c - ', c)
c[1:2] = ['a', 'b', 'c']
print('c - ', c)
c[1] = ['a', 'b', 'c'] # 2
print('c - ', c)
c[1:3] = []
print('c - ', c)
del c[3]
print('c - ', c)

print()

#
print('# == == #')
a = [5, 2, 3, 1, 4]

print('a - ', a)
a.append(6)
print('a - ', a)
a.sort()
print('a - ', a)
a.reverse()
print('a - ', a)
print('a - ', a.index(5))
a.insert(2, 7)
print('a - ', a)
a.reverse()
a.remove(1) # 가
print('a - ', a)
print('a - ', a.pop()) # ( )
print('a - ', a.pop())
print('a - ', a)
print('a - ', a.count(4))
ex = [8, 9]
a.extend(ex) # 가
print('a - ', a)

print()

# remove, pop, del
```

```

#
print('# ==          == #')
while a:
    l = a.pop()
    print(2 is l, l)

print()

print('# ====          ==== #')
#          (    0,    0,    X,    X)

#
a = ()
b = (1,)
c = (1, 2, 3, 4)
d = (10, 100, 'Pen', 'Cap', 'Plate')
e = (10, 100, ('Pen', 'Cap', 'Plate'))

#
print('# ==          == #')
print('d - ', type(d), d)
print('d - ', d[1])
print('d - ', d[0] + d[1] + d[1])
print('d - ', d[-1])
print('e - ', e[-1][1])
# print('e - ', e[-1][1][4])
print('e - ', list(e[-1][1]))

print()

#
print('# ==          == #')
print('d - ', d[0:3])
print('d - ', d[2:])
print('e - ', e[2][1:3])

print()

#
print('# ==          == #')
print('c + d - ', c + d)
print('c * 3 - ', c * 3)
# print("c[0] + 'hi' - ", c[0] + 'hi')
print("'hi' + c[0] - ", 'hi' + str(c[0]))

print()

#
print('# ==          == #')
a = (5, 2, 3, 1, 4)

```

```
print('a - ', a)
print('a - ', a.index(5))
print('a - ', a.count(4))
```

```
#====      ===#
#==        ==#
d - <class 'list'> [10, 100, 'Pen', 'Cap', 'Plate']
d - 100
d - 210
d - Plate
e - Cap
e - ['C', 'a', 'p']
#==        ==#
d - [10, 100, 'Pen']
d - ['Pen', 'Cap', 'Plate']
e - ['Cap', 'Plate']
#==        ==#
c + d - [1, 2, 3, 4, 10, 100, 'Pen', 'Cap', 'Plate']
c * 3 - [1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4]
'hi' + c[0] - hi1
#==        ,      ==#
c - [4, 2, 3, 4]
c - [4, 'a', 'b', 'c', 3, 4]
c - [4, ['a', 'b', 'c'], 'b', 'c', 3, 4]
c - [4, 'c', 3, 4]
c - [4, 'c', 3]
#==        ==#
a - [5, 2, 3, 1, 4]
a - [5, 2, 3, 1, 4, 6]
a - [1, 2, 3, 4, 5, 6]
a - [6, 5, 4, 3, 2, 1]
a - 1
a - [6, 5, 7, 4, 3, 2, 1]
a - [2, 3, 4, 7, 5, 6]
a - 6
a - 5
a - [2, 3, 4, 7]
a - 1
a - [2, 3, 4, 7, 8, 9]
#==        ==#
False 9
False 8
False 7
False 4
False 3
True 2
#====      ===#
#==        ==#
```

```

d - <class 'tuple'> (10, 100, 'Pen', 'Cap', 'Plate')
d - 100
d - 210
d - Plate
e - Cap
e - ['C', 'a', 'p']
# ==      == #
d - (10, 100, 'Pen')
d - ('Pen', 'Cap', 'Plate')
e - ('Cap', 'Plate')
# ==      == #
c + d - (1, 2, 3, 4, 10, 100, 'Pen', 'Cap', 'Plate')
c * 3 - (1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4)
'hi' + c[0] - hi1
# ==      == #
a - (5, 2, 3, 1, 4)
a - 0
a - 1

```

# Tip

, [python](#), ,

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