



python3 in one pic

Decorator

```
def fa():  
    print("This is fa!")  
# *****  
# Hey log~  
#  
This is fb!  
# Bye log~  
#  
def fb():  
    print("This is fb!")  
    fb = log(fb)  
  
fa()  
print("*"*10)  
fb()
```

Lambda

```
pairs = [(1, 'one'), (2, 'two'), (3, 'three'),  
(4, 'four')]  
  
pairs.sort(key=lambda pair: pair[1])  
print(pairs)  
"[(4, 'four'), (1, 'one'), (3, 'three'), (2, 'two')]"  
  
pairs.sort(key=lambda  
pair: pair[0])  
print(pairs)  
"[(1, 'one'), (2, 'two'), (3, 'three'), (4, 'four')]"
```

Arguments

Function

```
def f(*args, **kargs):  
    print("args ", args)  
  
    print("kargs ", kargs)  
    print("FP: {} &  
Scripts: {}".format(kargs.get("fp"), "/" + join(args)))  
  
f("Python",  
  "Javascript", ms = "C++", fp = "Haskell")  
# args  ('Python',  
        'Javascript')  
# kargs  {'ms': 'C++', 'fp': 'Haskell'}  
#  
FP: Haskell and Scripts: Python/Javascript
```

arbitrary arguments

```
def f(*args, con = " & "):  
    print(isinstance(args,  
tuple))  
    print("Hello", con.join(args))  
  
f("Python",  
  "C", "C++", con = "/")  
# True  
# "Hello  
Python/C/C++"
```

keyword arguments

```
def f(v, l = "Python"):  
    """return  
    $v, $l"""  
    return "{}, {}".format(v,  
l)
```

Native Datatypes

Casting

```
print(str(3.14))  # "3.14"  
print(str(3))    # "3"  
print(str([1,2,3]))  
# "[1,2,3]"  
print(str((1,2,3))) # "(1,2,3)"  
print(str({1,2,3}))  
# "{1,2,3}"  
print(str({'python':  
    '*.py', 'javascript': '*.js'}))  
"{'python':  
    '*.py', 'javascript': '*.js'}"
```

Byte

list of ascii character

```
byt = b'abc'  
print(type(byt))  # <class 'bytes'>  
print(byt[0])  
== 'a')# False  
print(byt[0] == 97) # True
```

Length

```
print(len(byt))  # 3
```

Boolean

True

False

```
print(type(True))  # <class 'bool'>
```

None

```
print(None is None)  # True  
print(type(None))    # <class 'NoneType'>
```

List

```
l = ['python', 3, 'in', 'one']  
print(type(l))  
# <class 'list'>  
  
Length      print(len(l))      # 4  
  
Slicing     print(l[0])          # 'python'  
            print(l[-1])         # 'one'  
            print(l[1:-1])        # [3, 'in']  
  
l.append('pic') # None  
# l == ['python',  
3, 'in', 'one', 'pic']  
l.insert(2,  
'4.1') # None  
# l == ['python', 3, '4.1', 'in',  
'one', 'pic']  
l.extend(['!', '!'])  
#  
l == ['python', 3, '4.1', 'in',  
'one', 'pic', '!', '!']
```



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