生成列表

[x for x in range(10)]

Out[1]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

生成器

a = (x for x in range(10))

a

Out[5]: <generator生成器 object <genexpr> at 0x00000000055ECF10>

next(a)

Out[7]: 0

next(a)

Out[8]: 1

定义函数

def dlj():

'''

定义大力姐的函数（标注）

'''

print('dalijie')

dlj()

dalijie

def zcz():

print('今天沙城暴')

zcz()

今天沙城暴

def zcz(sex,age,addr):

print(sex,age,addr)

zcz(sex='M',age=18,addr='hulunbeier')

M 18 hulunbeier

def joker(name,\*,name2,name3): \*是强制命名的意思，\*在name2,name3之前，必须给后面两个命名

print(name)

print(name2)

print(name3)

joker(100,1000,10000)

---------------------------------------------------------------------------

TypeError Traceback (most recent call last)

<ipython-input-4-0598f1969241> in <module>()

----> 1 joker(100,1000,10000)

TypeError: joker() takes 1 positional argument but 3 were given

joker(100,name2=1000,name3=10000) 就像这样

100

1000

10000

def qiangge(\*args):

print(args)

qiangge(1)

(1,)

qiangge(1,1,1,1,1,1,1,1,1)

(1, 1, 1, 1, 1, 1, 1, 1, 1)

1. 返回的是元组

Out[9]: 1

def qiangge(\*name):

print(name)

qiangge(1,1,1,1,1,1,1,1,1)

(1, 1, 1, 1, 1, 1, 1, 1, 1)

def qiangge(name1,name2,\*name):

print(name1)

print(name2)

print(name)

qiangge(1,1,100,100,100)

1

1

(100, 100, 100)

def qiangge(\*\*kwargs):

print(kwargs)

qiangge(a=1,b=2,c=3,d=4)

{'a': 1, 'b': 2, 'c': 3, 'd': 4} 返回的是字典

def qiangge(\*args,\*\*kwargs):

print(kwargs)

print(args)

args kwargs

qiangge(1,1,1,1,1,1,a=1,b=2,c=3)

{'a': 1, 'b': 2, 'c': 3}

(1, 1, 1, 1, 1, 1)

定义一个100-1000内检验水仙花数（函数）水仙花数是153=1^3+5^3+3^3

def shuixianhua():

for i in range(100,1000):

bai = i//100

shi = i//10%10

ge = i%10

if i ==bai\*\*3+shi\*\*3+ge\*\*3:

print(i)

shuixianhua()

153

370

371

407

从开放数据中得出男性数量和女性数量

def statictis():

man = 0

woman = 0

file\_path = 'C:\\Users\\Administrator\\Desktop\\kaifangX.txt'

with open(file\_path,'r',encoding='gbk',errors='ignore') as f:

for i in range(10000):

try:

gender = f.readline().split(',')[2]

if gender == 'M':

man +=1

if gender == 'F':

woman +=1

except Exception as e:

print(e)

print('空行')

print(woman,man)

statictis()

list index out of range

空行

list index out of range

空行

list index out of range

空行

2442 7528

调用函数 class类

class ZhenWanXin:

'''注释：这个类是做什么的'''

def \_\_init\_\_(self):

self.a = '郑婉欣'

def show(self):

print(self.a)

ZhenWanXin()

Out[23]: <\_\_main\_\_.ZhenWanXin at 0x56392b0>

ZhenWanXin().show()

郑婉欣

class ZhenWanXin:

'''注释：这个类是做什么的'''

def \_\_init\_\_(self,name1,name2):（必须定义初始化变量）

self.a = name1

self.b = name2

def show(self):

print(self.a)

print(self.b)

ZhenWanXin('摩羯座','666')

Out[26]: <\_\_main\_\_.ZhenWanXin at 0x55eccf8>

ZhenWanXin(name1='摩羯座',name2='666').show()

摩羯座

666