

python_捕获异常

python捕获分类:

1、明确类型进行捕获

```
  
d={"a":1}  
  
try:  
    d["key"]  
  
except KeyError as e: #只能捕获keyerror这一种错误  
    print('出错了')
```

```
  
try:  
    1/0  
    d['key']  
  
except ZeroDivisionError as e: #捕获ZeroDivisionError这一种错误  
    print("error")
```

C:\Users\zhaow\AppData\Local\Programs\Python\Python37\python.exe D:/study/python/test/dd.py

error

```
  
d={"a":1}  
  
try: #当try中有多个错误是, 根据位置在前的错误会报错走捕获, 后面的错误捕获不再进行输出  
    d['key']  
    1/0  
  
except ZeroDivisionError as e: #捕获ZeroDivisionError这一种错误  
    print("error")  
  
except KeyError as e: #只能捕获keyerror这一种错误  
    print('出错了')
```

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出错了 #因为keyerror的错误在前, 所以程序走了其捕获异常代码, 未走获ZeroDivisionError这个捕获

2、未明确类型进行统一捕获

```
try:
```

```
    1/0
```

```
except KeyError as e:  #只能捕获一种错误
```

```
    print("error")
```

C:\Users\zhaow\AppData\Local\Programs\Python\Python37\python.exe D:/study/python/test/dd.py

Traceback (most recent call last):

File "D:/study/python/test/dd.py", line 89, in <module>

```
    1/0
```

ZeroDivisionError: division by zero

```
try:
```

```
    1/0
```

```
except Exception as e:  #捕获任何错误
```

```
    print("error")
```

C:\Users\zhaow\AppData\Local\Programs\Python\Python37\python.exe D:/study/python/test/dd.py

error

```
try:
```

```
    d[9]
```

```
except Exception as e:  #捕获任何错误
```

```
    print('error')
```

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error

3、捕获错误带分支逻辑

```
try:

    a='000'

except Exception as e:  #当有错误运行这里的代码

    print('error')

else: #当没有捕获到错误就运行这里的代码

    print('无错误走这里')
```

C:\Users\zhaow\AppData\Local\Programs\Python\Python37\python.exe D:/study/python/test/dd.py

无错误走这里

```
try:

    a=b

except Exception as e:  #当有错误运行这里的代码

    print('有错误运行这里')

else: #当没有捕获到错误就运行这里的代码

    print('无错误走这里')
```

C:\Users\zhaow\AppData\Local\Programs\Python\Python37\python.exe D:/study/python/test/dd.py

有错误运行这里

4、捕获带finally

```
try:

    a=b

except Exception as e:  #当有错误运行这里的代码

    print('有错误运行这里 ')

else: #当没有捕获到错误就运行这里的代码

    print('无错误走这里 ')

finally: #出错还是不出错程序都会运行这里的代码

    print('出错还是不出错我肯定是要运行的 ')
```

C:\Users\zhaow\AppData\Local\Programs\Python\Python37\python.exe D:/study/python/test/dd.py

有错误运行这里

出错还是不出错我肯定是要运行的

```
try:

    a=1

except Exception as e:  #当有错误运行这里的代码

    print('有错误运行这里 ')

else: #当没有捕获到错误就运行这里的代码

    print('无错误走这里 ')

finally: #出错还是不出错程序都会运行这里的代码

    print('出错还是不出错我肯定是要运行的 ')
```

C:\Users\zhaow\AppData\Local\Programs\Python\Python37\python.exe D:/study/python/test/dd.py

无错误走这里

出错还是不出错我肯定是要运行的

5、异常的输出

```
import traceback
```

```
try:
```

```
    a=a
```

```
except Exception as e:
```

```
    print(e) #输出具体的错误内容
```

```
print('=====')
```

```
try:
```

```
    a=a
```

```
except Exception as e:
```

```
    print(traceback.format_exc()) #输出详细的错误内容
```

C:\Users\zhaow\AppData\Local\Programs\Python\Python37\python.exe D:/study/python/test/dd.py

```
name 'a' is not defined
```

```
=====
```

```
Traceback (most recent call last):
```

```
  File "D:/study/python/test/dd.py", line 94, in <module>
```

```
      a=a
```

```
NameError: name 'a' is not defined
```