# chool

Python 的逆襲 - 例外處理



段維瀚 老師



- 語法 1
  - otry:

<敘述>

except <例外名稱 1>:

<敘述>

except <例外名稱 2>:

<敘述>

else:

<敘述>



例外名稱	描述
AttributeError	呼叫不存在的方法資源
EOFError	讀到檔尾
ImportError	匯入模組錯誤
IndexError	陣列超過最大index範圍
IOError	I/O操作錯誤
KeyError	Key不存在
NameError	使用不存在的變數名稱
TabError	敘述區塊縮排不正確
ValueError	搜尋列表中不存在的值
ZeroDivisionError	除數為內的錯誤

```
a = 100
b = 0
try:
                         捕捉所有例外
    c = a / b
except:
                                                    捕捉特定例外
    print('ZeroDivisionError')
else:
    print(c)
                             a = 100
                             b = 0
                             try:
                                 c = a / b
                             except ZeroDivisionError:
                                 print('ZeroDivisionError')
                             else:
                                 print(c)
```

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#### • 取得原始錯誤原因

```
a = 100
b = 0

try:
    c = a / b
except ZeroDivisionError as value:
    print(value)
else:
    print(c)
```

#### • 多重錯誤捕捉

```
a = 100
b = 0
try:
   c = a / b
except ZeroDivisionError as value:
    print(value)
except IndexError as value:
    print(value)
else:
    print(c)
```

#### • 多重錯誤捕捉

```
a = 100
b = 0

try:
    c = a / b
except (ZeroDivisionError, IndexError) as value:
    print(value)
else:
    print(c)
```

- 語法 2
  - o try:

<敘述>

except <例外名稱 1>:

<敘述>

except <例外名稱 2>:

<敘述>

finally:

<敘述>



```
a = 100
b = 0
try:
    c = a / b
except ZeroDivisionError:
    print('ZeroDivisionError')
else:
    print(c)
finally:
    print('must be done')
```

#### 例外處理-拋出例外 raise

```
a = 100
b = 0
try:
    if b==0:
        raise Exception('b is zero')
    c = a / b
except Exception as value:
    print(value)
else:
    print(c)
```

#### 例外處理-拋出例外方法

```
def calc(a, b):
    if b==0:
        raise Exception('b is zero')
    c = a / b
    print(c)

try:
    calc(100, 0)
except Exception as value:
    print(value)
```

#### 例外處理-拋出自訂例外

```
class LoginException(Exception):
    def __init__(self, message):
         self.message = message
    def str (self):
        return 'Error message : ' + self.message
def login(username, password):
    if (username == 'admin' and password == '1234'):
        print('Pass')
    else:
        raise LoginException('Login Error')
try:
    login('admin', '5678')
except LoginException as value:
    print(value)
```