

try except

6주차_02_02

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학습목표

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- ▶ try except 구문 이해하기
- ▶ try finally 사용하기

Try: Exception I

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```
import sys

while True:
    try:
        x = int(input("Please enter an integer: "))
        break

    except ValueError:
        print("Oops! That was no valid number. Try again...")
```

```
>>>
Please enter an integer: 5
>>> ===== RESTART =====
>>>
Please enter an integer: as
Oops! That was no valid number. Try again...
Please enter an integer: v
Oops! That was no valid number. Try again...
Please enter an integer: 5.4
Oops! That was no valid number. Try again...
Please enter an integer: 09
>>>
```

Try: Exception 2

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```
import sys

try:
    x = 1/0

except ZeroDivisionError as err:
    print('Handling run-time error:', err)
```

```
>>>
Handling run-time error: division by zero
>>>
```

Except with Multiple Exceptions

```
import sys

try:
    f = open('myfile.txt', 'r')
    s = f.readline()
    i = int(s.strip())
except IOError as err:
    print("I/O error: {0}".format(err))
except ValueError:
    print("Could not convert data to an integer.")
except:
    print("Unexpected error:", sys.exc_info()[0])
```

```
>>>
I/O error: [Errno 2] No such file or directory: 'myfile.txt'
>>>
```

Try-Finally 사용

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try:

```
fh = open("t.txt", "w")
```

try:

```
fh.write("This is my test file for exception handling!!\n")
```

```
fh.write("=" * 35)
```

finally:

```
print("Going to close the file")
```

```
fh.close()
```

```
fh = open("t.txt", "r")
```

```
print(fh.readlines())
```

```
fh.close()
```

```
>>>
Going to close the file
['This is my test file for exception handling!!\n', '=====']
>>>
```

except IOError:

```
print("Error: can't find file or read data")
```

연습문제 I

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- ▶ Value error를 확인하는 try 구문을 쓰시오

연습문제 1, 코드

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```
import sys

while True:
    try:
        x = int(input("Please enter an integer: "))
        break

    except ValueError:
        print("Oops! That was no valid number. Try again...")

print("에러확인 완료")
```

```
Please enter an integer: 2.34
Oops! That was no valid number. Try again...
Please enter an integer: █
```


연습문제 2

- ▶ zerodivision error를 확인하는 try 구문을 쓰시오

연습문제 2, 코드

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```
import sys

while True:
    try:
        x = int(input("Please enter an integer: "))
        y = x / (x-x)
        break

    except ZeroDivisionError as err:
        print('Handling run-time error:', err)

print("에러확인 완료")
```

```
Please enter an integer: 3
Handling run-time error: division by zero
Please enter an integer: 5
Handling run-time error: division by zero
Please enter an integer: █
```

연습문제 3

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- ▶ 파일을 읽었는데, 존재하지 않는 경우 에러 처리하는 구문을 쓰시오

연습문제 3, 코드

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```
import sys

try:
    f = open('file.txt', 'r')
    s = f.readlines()

except IOError as err:
    print("I/O error: {0}".format(err))
```

강의 요약

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- ▶ 예외처리 개념 이해하기
 - ▶ try, except, finally 구문 활용

목표 달성 질문

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- ▶ try~ except구문은 어느 경우에 사용하는지 설명하시오

감사합니다