

KPMU

Day-5

11-08-2023

✓ Form Demo Import +
✓ Import Demo

Ex: py

Executing

By
any other
Python file

Its File Name

namespace

Demo.py

--name--

Executing
By Its
Main file
(Demo.py)

Value Return

--main--

'Demo'

```
1 print("This is file1 and namespace return:-", __name__)
```

File1

File1

```
1 import file1  
2 print("This is file2 and namespace return:-", __name__)
```

File2

File2

```
1 import file2  
2 print("This is file3 and namespace return:-", __name__)
```

File3

--main--

⇒

File1
File2
--main--

Module

Construct ✓

def ✓

clear ✓

If I export module
file then

their own piece of code as script

for
Calculation
works }

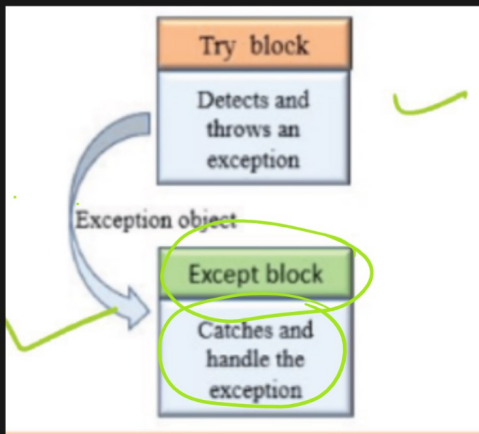
#

Calculation

if { - nam - } == 'main' :

$$30 \frac{3}{31} =$$

An exception is an event that occurs during the execution of programs that **disrupt the normal flow of execution**



- FileNotFoundError
- ImportError
- RuntimeError
- NameError
- TypeError

<code>AssertionError</code>	Raised when an <code>assert</code> statement fails.
<code>AttributeError</code>	Raised when attribute assignment or reference fails.
<code>EOFError</code>	Raised when the <code>input()</code> function hits the end-of-file condition.
<code>FloatingPointError</code>	Raised when a floating-point operation fails.
<code>GeneratorExit</code>	Raise when a generator's <code>close()</code> method is called.
<code>ImportError</code>	Raised when the imported module is not found.
<code>IndexError</code>	Raised when the index of a sequence is out of range.
<code>KeyError</code>	Raised when a key is not found in a dictionary.
<code>KeyboardInterrupt</code>	Raised when the user hits the interrupt key (Ctrl-C or Delete)
<code>MemoryError</code>	Raised when an operation runs out of memory.
<code>NameError</code>	Raised when a variable is not found in the local or global scope.
<code>OSError</code>	Raised when system operation causes system related error.

try-except-finally

Python provides the finally block, which is used with the try block statement. The finally block is used to write a block of code that must execute, whether the try block raises an error or not.

Mainly, the finally block is used to release the external resource. This block provides a guarantee of execution.

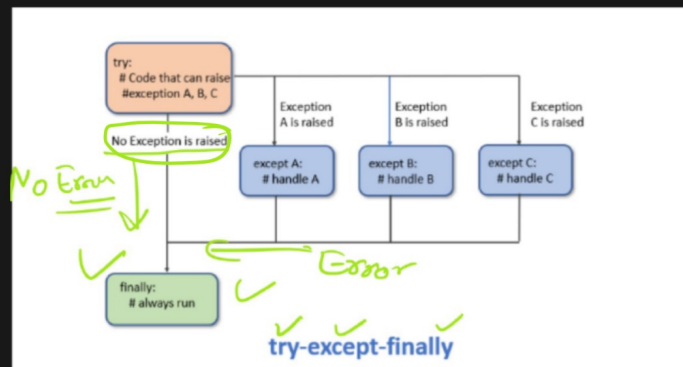
try :

except E₁ :

except E₂ :

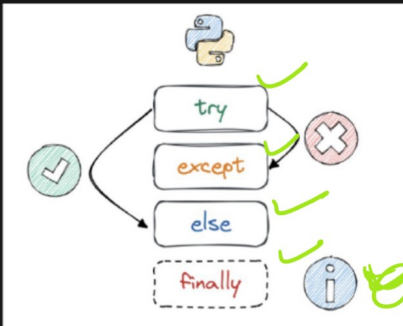
except E_{max} :

finally :

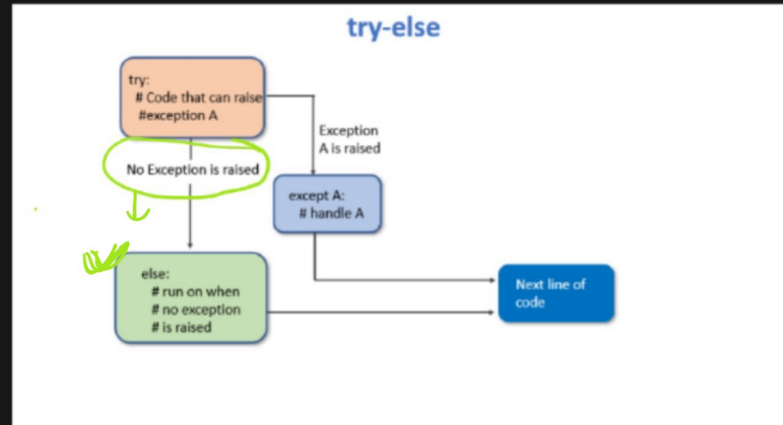


Using try with else clause

Sometimes we might want to run a specific block of code. In that case, we can use `else` block with the `try-except` block. The `else` block will be executed if and only if there are no exception in the `try` block. For these cases, we can use the optional `else` statement with the `try` statement.



Others



lines.txt ① → If ext → not *xt

↓ ValueError
raised

★ IncrName + IncrName → ValueError

★ IncrName *xt → IOError

A	Name	Exp
NameError	X	✓
ValueError	✓	X
IOError	X	X