## **Exception Handling Intro**

30 January 2025 22:30

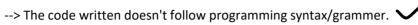
There are 2 stages where error can occur in a program

- During compilation -> Syntax Error
- During execution -> Exceptions

# Syntax error & exceptions

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#### Syntax error:



- --> This Error is raised by the interpreter/compiler
- --> This can be solved by correcting the syntax or grammer

Examples of syntax error

- --> Forgetting symbols like colon, brackets
- --> Misspelling keywords
- --> Incorrect indentation
- --> IndexError:

The IndexError is thrown when trying to access an item at an invalid index.

--> ModuleNotFoundError

The ModuleNotFoundError is thrown when a module could not be found.

--> KeyError

The KeyError is thrown when a key is not found in dictionary

--> ValueError

The ValueError is thrown when a function's argument is of an inappropriate data type.

--> NameError

The NameError is thrown when accessing an object/variable that is not defined/initialized.

--> AttributeError

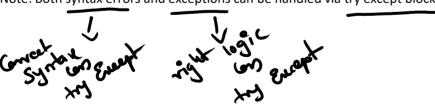
It is raised when calling inappropriate method

### **Exceptions:**

If any error occurs during the execution of the program called exceptions.

- Exceptions are raised in runtime
- We can handle by writing right logic or through try except block

Note: Both syntax errors and exceptions can be handled via try except block



Why it is important to handle?

-->User experience (Enhanch

-->security reasons

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## try except block

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- 1. Understanding try except block
- 2. Catching specific exceptions
- 3. Usage of else with try except
- 4. Finally with try except else
- 5. raise keyword

### Understanding try except block

Catching specific exceptions

× (Unsupperted Operation)

× (Zowdithiern Error)

× (NamoGran)

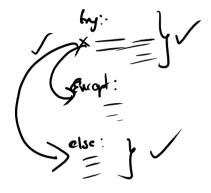
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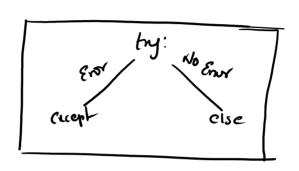
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Except End Except ever Exception as c:

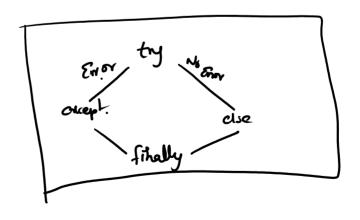
Usage of else with try except





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Finally with try except else



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