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Error Handling with Try-Except Blocks

SKILLS FOR LIFE
SKILLS BOOTCAMPS

Department for Education

Software Engineering Lecture Housekeeping

- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly. **(FBV: Mutual Respect.)**
- No question is daft or silly - **ask them!**
- There are **Q&A sessions** midway and at the end of the session, should you wish to ask any follow-up questions. Moderators are going to be answering questions as the session progresses as well.
- If you have any questions outside of this lecture, or that are not answered during this lecture, please do submit these for upcoming Open Classes. You can submit these questions here: **Open Class Questions**

Software Engineering Lecture Housekeeping cont.

- For all **non-academic questions**, please submit a query: **www.hyperiondev.com/support**
- Report a **safeguarding** incident: **www.hyperiondev.com/safeguardreporting**
- We would love your **feedback** on lectures: **Feedback on Lectures**

Progression Criteria

✅ Criterion 1: Initial Requirements

- Complete 15 hours of Guided Learning Hours and the first four tasks within two weeks.

✅ Criterion 2: Mid-Course Progress

- Software Engineering: Finish 14 tasks by week 8.
- Data Science: Finish 13 tasks by week 8.

✅ Criterion 3: Post-Course Progress

- Complete all mandatory tasks by 24th March 2024.
- Record an Invitation to Interview within 4 weeks of course completion, or by 30th March 2024.
- Achieve 112 GLH by 24th March 2024.

✅ Criterion 4: Employability

- Record a Final Job Outcome within 12 weeks of graduation, or by 23rd September 2024.

Lecture Objectives

1. Discuss the purpose of try-except blocks and how they are used to handle errors.

2. Identify common errors that occur in programmes and how try-except blocks handle them.

3. Implement try-except blocks.

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Recap on Error Types

Poll:

Assessment

Defensive Programming

- Programmers anticipate errors.
  - User errors
  - Environment errors
  - Logical errors
- Code is written to ensure that these errors don't crash the code base.
- Two ways - if statements and try-except blocks.

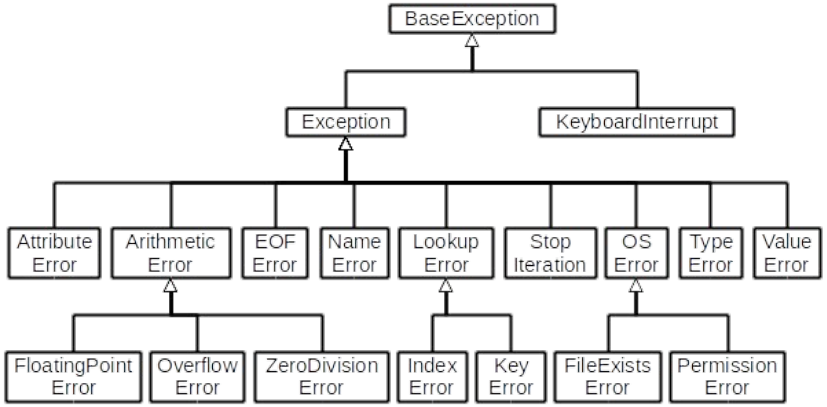
What are exceptions ?

An exception is an event, which occurs during the execution of a program that disrupts the normal flow of the its initial instructions.

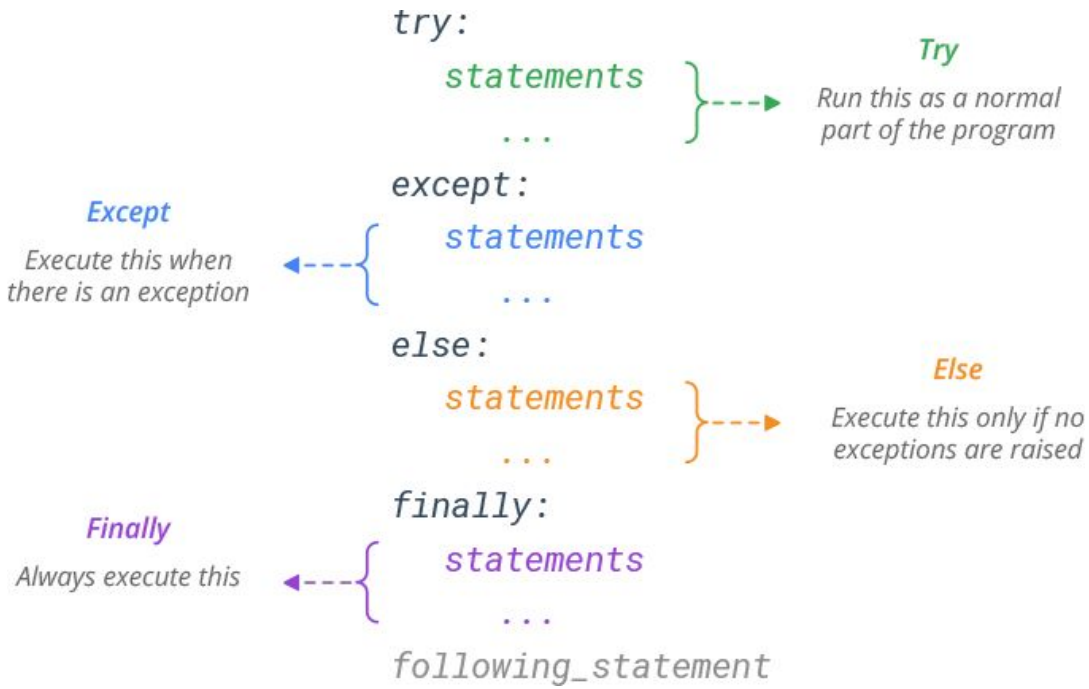
Question:

What are some scenarios where you may want to use a try-except block?

Basic types of exceptions

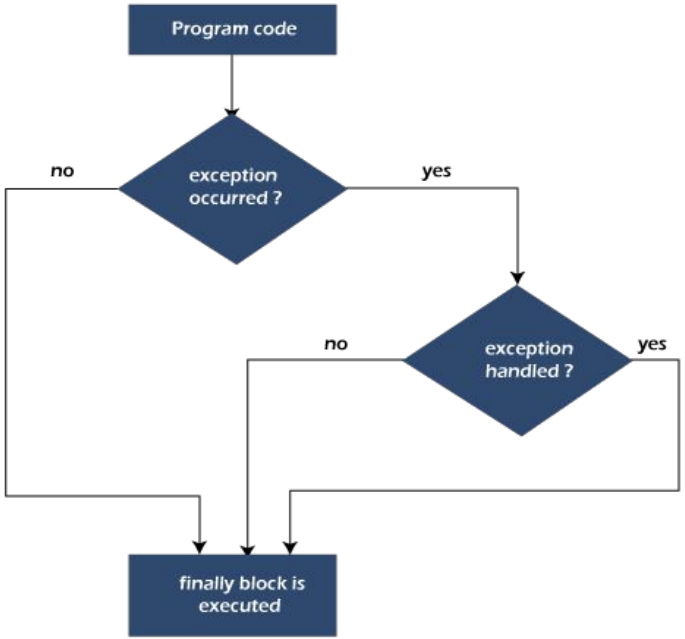


try-except block structure



https://www.learnbyexample.org/python-exceptions-try-except/

finally block



Challenge:

What is the term for using Try-Catch blocks in our code?

Poll:

Assessment

Wrapping Up

Exceptions

Events that occur during programme execution that can disrupt the normal flow of the program.

Try-except block

Allows you to handle errors gracefully and prevent your program from crashing).

Finally block

A part of a try-except block that is always executed regardless of whether an exception occurs or not.

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Questions around Exception Handling

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Thank you for joining