



# CoGrammar

## Week 4 – Open Class 1

**SKILLS  
FOR LIFE**

**SKILLS BOOTCAMPS**



Department  
for Education

# Software Engineering Lecture Housekeeping

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- 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.

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- For all **non-academic questions**, please submit a query:  
[www.hyperiondev.com/support](https://www.hyperiondev.com/support)
- Report a **safeguarding** incident:  
[www.hyperiondev.com/safeguardreporting](https://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. Review Try-Except Blocks.**
- 2. Try-Except examples.**
- 3. Open floor: Q&A**

# Defensive Programming

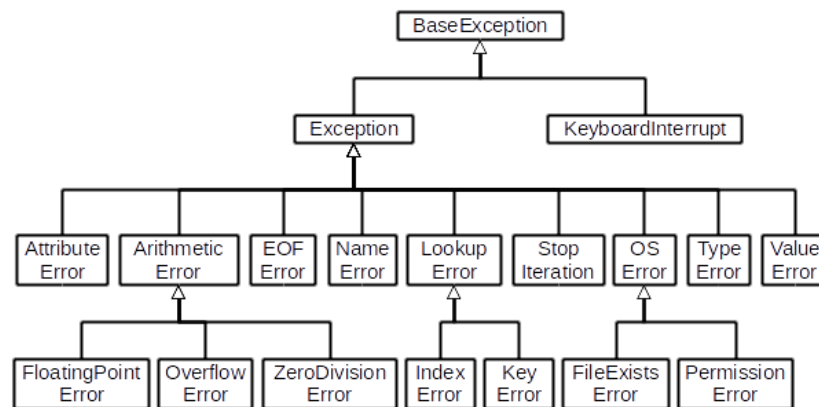
- ★ Programmers anticipate errors.
  - ★ User errors
  - ★ Environment errors
  - ★ Logical errors
- ★ Code is written to ensure that these errors don't crash the code base.
- ★ Two ways - if statements and try-except blocks.

# What are exceptions?

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

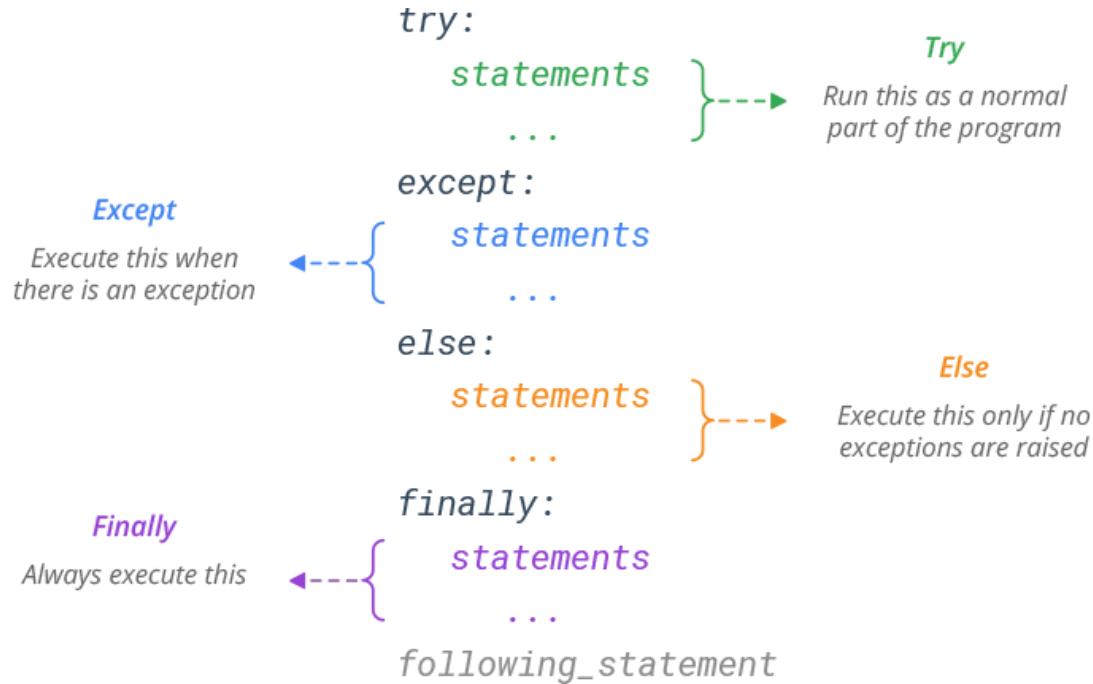


# Basic types of exceptions





# try-except block structure



# Raising Exceptions

- ★ There will be occasions when you want your program to raise a custom exception whenever a certain condition is met.
- ★ In Python we can do this by using the “raise” keyword and adding a custom message to the exception: In the next example we’re prompting the user to enter a value > 10. If the user enters a number that does not meet that condition, an exception is raised with a custom error message.

# Raising Exceptions

```
num = int(input("Please enter a value greater than 10 : "))  
  
if num < 10:  
    raise Exception(f"Your value was less than 10. The value of num was : {num}")
```

# A Note on try-except

- ★ It may be tempting to wrap all code in a try-except block. However, you want to handle different errors differently.
- ★ Don't try to use try-except blocks to avoid writing code that properly validates inputs.
- ★ The correct usage for try except should only be for “exceptional” cases. Eg: The potential of Division by 0.

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Refer to python files for revision.

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Questions and Answers



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**Thank you for joining**