Welcome to the CoGrammar

Skills Bootcamp
Open Session: Control Structures

The session will start shortly...

Questions? Drop them in the chat. We'll have dedicated moderators answering questions.

Cyber Security Session Housekeeping

- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly. **(Fundamental British Values: Mutual Respect and Tolerance)**
- 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 Academic Sessions. You can submit these questions here: **Questions**

Cyber Security Session Housekeeping cont.

- For all **non-academic questions**, please submit a query: **www.hyperiondev.com/support**
- We would love your **feedback** on lectures: **Feedback on Lectures**
- Find all the lecture **content** in you **Lecture Backpack** on GitHub.

Safeguarding & Welfare

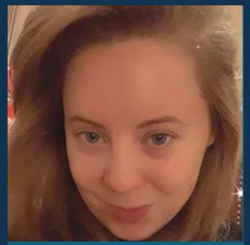
We are committed to all our students and staff feeling safe and happy; we want to make sure there is always someone you can turn to if you are worried about anything.

If you are feeling upset or unsafe, are worried about a friend, student or family member, or you feel like something isn't right, speak to our safeguarding team:

Ian Wyles
Designated Safeguarding Lead

Simone Botes

Rafiq Manan



Charlotte Witcher

Nurhaan Snyman

Ronald Munodawafa

Tevin Pitts

Scan to report a safeguarding concern

or email the Designated Safeguarding Lead:
Ian Wyles
safeguarding@hyperiondev.com

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Learning Objectives

- Explain the purpose and usage of control structures in Programming
- Define and apply `if`, `elif`, and `else` statements in Python.
- Write simple programs using conditional logic to control the flow of a program.


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What are Control Structures?

- Control structures allow developers to direct the flow of a program. They let you run different pieces of code based on conditions or repeat blocks of code.
- In Python, control structures primarily include **conditional statements** and **loops**.

Why are Control Structures Important?

- Control structures are fundamental in making programs dynamic and adaptable.
- They allow us to:
  - Make decisions (conditionals).
  - Repeat actions (loops).

Conditional Statements

- The `if` Statement

```
if condition:
    # execute code block if condition is True
```

```
age = 18
if age ⩾ 18:
    print("You are eligible to vote")
```

- The `elif` and `else`

```
if condition1:
    # execute this if condition1 is True
elif condition2:
    # execute this if condition2 is True
else:
    # execute this if none of the conditions are True
```

```
score = 85
if score ⩾ 90:
    print("Grade: A")
elif score ⩾ 80:
    print("Grade: B")
else:
    print("Grade: C")
```

Q&A Discussion (Open Floor)

- What challenges have you faced while using control structures?
- Still have any doubts or questions about if, elif, or else? Let's clarify them.

Can you spot an error in this code?

```
1    temperature = 25
2    if temperature > 30:
3        print("It's hot!")
4    elif temperature > 20
5        print("It's warm!")
6    else:
7        print("It's cold!")
8
```

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Thank you for attending

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