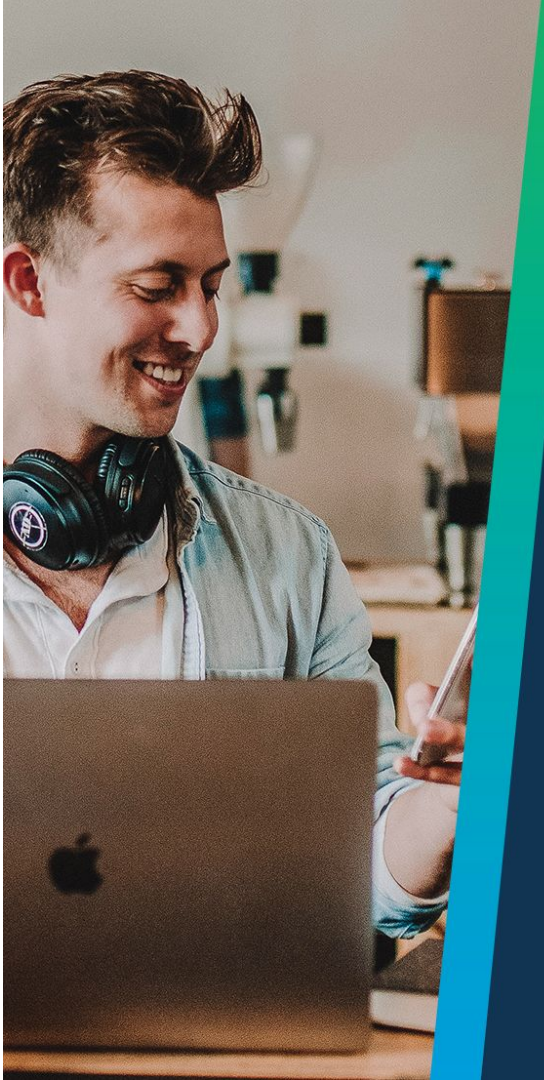


Cyber Security Bootcamp

Hyperiondev

Beginner Control Structures

Welcome

Your Lecturer for this session

Liano Naidoo

Objectives

- Recap and clear any ambiguity :)
- Cover practical Implementations of Conditionals and Operators.
- Answer your questions.


NEW PROGRAMMER
IF STATEMENT
IS THIS AI?
imgflip.com

Booleans

- ★ Booleans can only be stored as one of two things: True or False.
- ★ Mainly used for conditional checks.
- ★ Booleans should be declared in Python with capitals. Using lowercase for booleans will return an error in Python.

Control Structures

- ★ Control structures are code that will analyse variables and then choose a direction to follow based on the input provided.
- ★ Think of it as a form of branching: depending on the provided input, your program will have one of *x* branches to follow.
  - e.g. “If I finish my work early, I will go to bed. Else, I will have to work through the night”.

Elif Statements

- ★ What if there is a situation where we could have multiple statements that are True?
- ★ This is where elif comes into play: Else if → elif
- ★ Elif statements are mainly used to handle the case when multiple True statements are present.
- ★ Note that you can have multiple elif statements in an if-else block.

Things to Note

- ★ There is no limit to the number of elif statement one could have in an if-else block.
- ★ Only one final else statement is allowed.
- ★ Each condition is checked in order.
- ★ If one condition is True, that branch executes, and the statement ends.
- ★ Even if there are multiple True conditions, only the first True branch will execute.

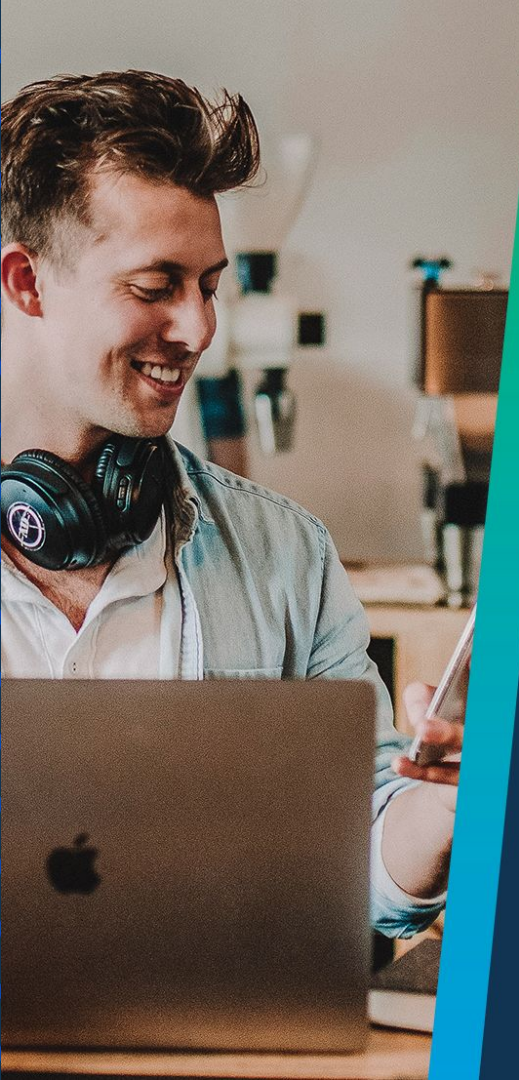
Bonus Slide!

- ★ Comparison operators are mainly used to compare numerical values. We can use comparison operators on non-numerical values as well. (example in ide)
- ★ Logical operators are used with one or more Boolean values to determine a ultimate True or False value. AND, OR and NOT(lowercase in code).

Hyperiondev

Q & A Section

Please use this time to ask any questions relating to the topic, should you have any.



Hyperiondev

Thank you for joining us