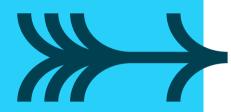


LESSON OBJECTIVES

- In this chapter you'll learn about:
- Python Control Flow statements
 - if
 - else
 - elif
- Logical OR and AND operators



Is for controlling the order we do things

Sequence

• Running code step by step, in order

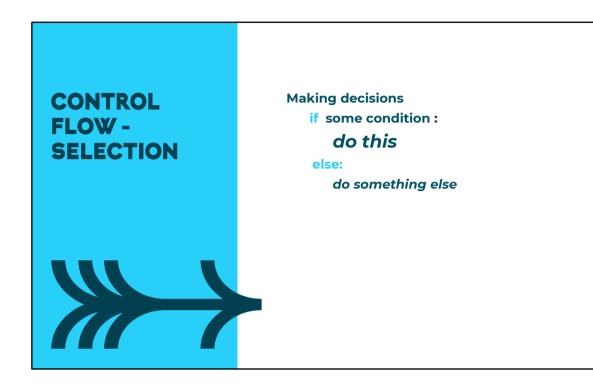
Selection

• Deciding which lines of code should run

Iteration

• Doing the same thing many times, i.e. in a loop





What you are seeing is what is called *pseudocode* – not a specific programming language but more a description of what to do.

Relational operators for making a selection > Greater than >= Greater than or equal to < Less than <= Less than or equal to == Equal to comparison != Not Equal to comparison Note! == not the same as =

Selection example – IF statement

Note the colons (two dots, one above the other) – necessary! Note the indenting – this isn't optional either. It shows where a block of code starts and finishes

Selection example – IF ... ELSE

This is the same thing in Python.

Note the colons (two dots, one above the other) – necessary!

Note the indenting – this isn't optional either. It shows where a block of code starts and finishes

Control flow using "else if" - elif

```
salary = 2500

if salary > 100000:
    print('Band A')
elif salary > 55000:
    print('Band B')
elif salary > 32000:
    print('Band C')
elif salary > 25000:
    print('Band D')
else:
    print('Band E')
```

Creates a chain of tests

When a test passes the other tests will not execute and the statement ends.

The last else is optional

This is the same thing in Python

Logical OR and AND

• What would you conclude from the following two IF statements?

```
course='Python'
age = 19

if course == 'Python' and age > 18:
    print('Welcome!')

if course == 'Python' or age > 20:
    print('Please start your', course, 'course!')
```

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 - else
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- Logical OR and AND operators



EXERCISE

Please see your Exercise Guide

- 06-Selection.docx
- Duration: 2 hours



Further Reading

- https://www.python.org/
- https://www.python.org/dev/peps/pep-0008/#a-foolish-consistency-is-the-hobgoblin-of-little-minds

