Supplementary notes for PYP1-OCT24

This repo will go private on or after 18 November 2024. If you wish to still have access then please email me with a GitHub username at alanl@stayahead.com

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Where operands are objects and not boolean expressions themselves,
Both the "or" plus the "and" operators return one of the operands NOT True/False

https://realpython.com/python-or-operator/

https://mathspp.com/blog/pydonts/boolean-short-circuiting

https://www.geeksforgeeks.org/short-circuiting-techniques-python/
(First two are better imo but this has useful examples of all() and any() builtins)

See **04-operators-and-expressions/short-circuiting.md**

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https://www.tracedynamics.com/python-string-builder/

Alternate methods for joining strings, by efficiency:

- str.join()
- str concatenation
- str += concatenation assignment
- io.StringIO streams

Method	Efficiency	Ease of Use	Suitable for Large Strings
`str.join()` Method	High	High	Yes
String Concatenation	Medium	High	No
Concatenation Assignment	Low	High	No
`io.StringIO` Class	High	Medium	Yes

Strings use string_test from My-Python
Raw strings
https://www.geeksforgeeks.org/python-raw-strings/
Unicode escapes
waving_hand = '\U0001F44B'
print(waving_hand)
dog_face = "\U0001F436"
print(dog_face)
https://www.geeksforgeeks.org/python-program-to-print-emojis/

For Hamza: here is an article on the difference between list comprehensions and Python lambdas
https://www.geeksforgeeks.org/difference-between-list-comprehension-and-lambda-in-python/

The json. dumps()method can convert a Python object into a JSON string. The json. dump()method can be used for writing/dumping JSON to a file/socket
https://www.geeksforgeeks.org/python-difference-between-json-dump-and-json-dumps/

Post-course consolidation

Beginner
https://www.w3schools.com/python/
NEW: host your own code on W3 Spaces
ALTERNATIVE: https://replit.com/~
BEST: local machine:
FIRST install Python (check *Add Interpreter to Path*)
https://www.python.org/downloads/
THEN VS Code
https://code.visualstudio.com/download
A python file should then automatically find the python interpreter on your system. If there are more than one version you will be given a choice.

Intermediate
https://www.geeksforgeeks.org/python-programming-language-tutorial/

Advanced
https://docs.python.org/3/tutorial/index.html

All levels
https://realpython.com/