## **Supplementary Notes for PYP1-FEB24**

#### **REPO:**

https://github.com/lavenderlens/PYP1-FEB24

REPL on section 17 databases: <a href="https://replit.com/@AlanLavender/databases">https://replit.com/@AlanLavender/databases</a>

## **VS Code shortcuts - Python environment**

CTRL + B	toggle explorer pane / full screen
CTRL + +/-	up/down font size
CTRL + /	toggle comment on/off
ALT/OPTION + CLICK	multi-cursor select
ALT + SHIFT + DOWN/UP	duplicate line down/up

#### INTERACTIVE HELP:

>>> dir(\_\_builtins\_\_)
>>> help(str)
>>> q

Yields:

>>> dir(\_\_builtins\_\_)

['ArithmeticError', 'AssertionError', 'AttributeError', 'BaseException', 'BaseExceptionGroup', 'BlockingIOError', 'BrokenPipeError', 'BufferError', 'BytesWarning', 'ChildProcessError', 'ConnectionAbortedError', 'ConnectionError', 'ConnectionRefusedError', 'ConnectionResetError', 'DeprecationWarning', 'EOFError', 'Ellipsis', 'EncodingWarning', 'EnvironmentError', 'Exception', 'ExceptionGroup', 'False', 'FileExistsError', 'FileNotFoundError', 'FloatingPointError', 'FutureWarning', 'GeneratorExit', 'IOError', 'ImportError', 'ImportWarning', 'IndentationError', 'IndexError', 'InterruptedError', 'IsADirectoryError', 'KeyError', 'KeyboardInterrupt', 'LookupError', 'MemoryError', 'ModuleNotFoundError', 'NameError', 'None', 'NotADirectoryError', 'NotImplemented', 'NotImplementedError', 'OSError', 'OverflowError', 'PendingDeprecationWarning', 'PermissionError', 'ProcessLookupError', 'RecursionError', 'ReferenceError', 'ResourceWarning', 'RuntimeError', 'RuntimeWarning', 'StopAsyncIteration', 'StopIteration', 'SyntaxError', 'SyntaxWarning', 'SystemError', 'SystemExit', 'TabError',

'TimeoutError', 'True', 'TypeError', 'UnboundLocalError', 'UnicodeDecodeError', 'UnicodeEncodeError', 'UnicodeError', 'UnicodeError', 'UnicodeError', 'UnicodeWarning', 'UserWarning', 'ValueError', 'Warning', 'ZeroDivisionError', '\_build\_class\_\_', '\_debug\_\_', '\_doc\_\_', '\_import\_\_', '\_loader\_\_', '\_name\_\_', '\_package\_\_', '\_spec\_\_', 'abs', 'aiter', 'all', 'anext', 'any', 'ascii', 'bin', 'bool', 'breakpoint', 'bytearray', 'bytes', 'callable', 'chr', 'classmethod', 'compile', 'complex', 'copyright', 'credits', 'delattr', 'dict', 'dir', 'divmod', 'enumerate', 'eval', 'exec', 'exit', 'filter', 'float', 'format', 'frozenset', 'getattr', 'globals', 'hasattr', 'hash', 'help', 'hex', 'id', 'input', 'int', 'isinstance', 'issubclass', 'iter', 'len', 'license', 'list', 'locals', 'map', 'max', 'memoryview', 'min', 'next', 'object', 'oct', 'open', 'ord', 'pow', 'print', 'property', 'quit', 'range', 'repr', 'reversed', 'round', 'set', 'setattr', 'slice', 'sorted', 'staticmethod', 'str', 'sum', 'super', 'tuple', 'type', 'vars', 'zip']

```
>>> help(str.upper)

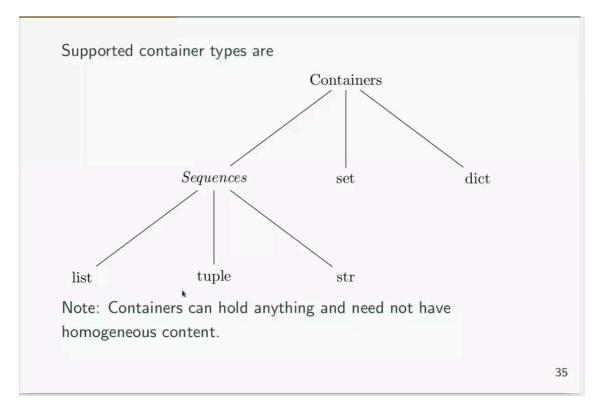
Help on method_descriptor:

upper(self, /)
   Return a copy of the string converted to uppercase.

q # for quit help

# only return builtins not errors as well
# >>> dir (__builtins___)[dir(__builtins___).index('abs'):]
```

#### **CONTAINER TYPES**



#### Post course readme links

For more info on extending classes:

https://www.geeksforgeeks.org/inheritance-and-composition-in-python/

https://www.geeksforgeeks.org/multiple-inheritance-in-python/

For more info on creating custom exceptions by extending base class Exception:

https://www.geeksforgeeks.org/user-defined-exceptions-python-examples/

For more info on list comprehensions:

https://www.geeksforgeeks.org/python-list-comprehension/

### **RECOMMENDED READING:**

#### **The Python Docs**

https://www.python.org/doc/

#### RealPython

https://realpython.com/

#### **GeeksForGeeks**

https://www.geeksforgeeks.org/python-programming-language/?ref=lbp

# **Benjamin Bennett Alexander on Twitter/X**

https://twitter.com/RealBenjizo

Happy Hacking!

Alan