Intro To Python: Class 1 Outline

1) Why Python is dominant
Review CG_Software_Python.pdf in https://github.com/skoshiwosh/cgpython

2) Review python_docs.pdf in:
https://github.com/skoshiwosh/cgpython

3) Cookbook Recipe: Computer Program Paradigm
sequence of tasks, condition, repetition, interrupts, assistants doing separate tasks

4) Computer Architecture
memory, ALU or CPU, registers, data bus, input/output devices, operating system
Review Computer_Architecture in https://github.com/skoshiwosh/cgpython

Intro to Computer Architecture
https://www.youtube.com/watch?v=HEjPop-aK_w

5) Data Representation
byte, word, signed and unsigned integers, floating point, stack, array, linked list
binary vs hexadecimal vs decimal

6) Assembler vs Compiler vs Interpreter

7) C++ vs Python
Review cplusplus_vs_python.pdf in https://github.com/skoshiwosh/cgpython

8) Command Line Interpreter
Introduction to using a command-line interface on Windows and overall concepts pertaining to all operating systems.
Review cmdinterpreter.pdf in https://github.com/skoshiwosh/cgpython

9) Using Python Idle
Demonstrate use of Idle both shell and editor. Introduce concept of IDE. Introduce other IDEs used: PyCharm, Emacs, Eclipse, Sublime, etc

10) Present Homework
class1_homework.pdf

11) Other docs in https://github.com/skoshiwosh/cgpython
pykeywords.pdf, pybuiltinfuncs.pdf, python_variables_types.jpg, bin_hex_ascii.pdf, python_expressions.pdf

12) Python Scripts
Review templatescript.py, demoscript.py, seqtypes.py and other python scripts in:
https://github.com/skoshiwosh/democode