RUNNING A SCRIPT VS THE INTERACTIVE INTERPRETER

- python [script_name.py] [args]
 - save to any directory
 - argparse module
- python
 - primary prompt
 - interactive
 - >>>

IF STATEMENTS:

Comparison Operators

- Logical Operators
 - and, or, not

ELIF & ELSE

- elif (else if)
- else (default or last case)
- same syntax as if statement

OPERATORS

- Membership operators
 - in
 - not in
- Identity operators
 - is
 - is not

SIMPLE FOR LOOP

- for x in [iterable_object]
 - Strings, lists, etc
 - Ex. Iterate through a list

FOR LOOP

- for x in range():
 - xrange()
 - range(start, stop, [step])

WHILE LOOP

- while I:
- while f.readline():
- while count < 10:

CONTINUE, BREAK & PASS

- continue to next iteration of loop
- break out of inner most
- pass, does nothing
 - used when something is required but no action is required
 - ex try, except block

LOOP ELSE

- used when iterating through object
- when you get to the end of the object without breaking out

FUNCTIONS

- def func():
- indent

ARGUMENTS

- · Required, Keyword, Default, Variable-length
 - required
 - def func(string):
 - keyword
 - def func(string):
 - func(string = "String")

ARGUMENTS

- · default
 - def func(string = "Default"):
 - · like keyword can be out of order
- variable-length
 - def func(*var_len):
 - for item in var_len:
 - print item

ARGUMENTS THAT ARE CHANGED WITHIN THE FUNCTION

· Change item in list example

RETURN

- · can return an expression
 - ex. return a + b
- · Can return multiple variables (via a tuple)

LAMBDA (ANONYMOUS FUNCTION)

- lambda [arg | [, arg2,....argn]]:expression
- sum = lambda argl, arg2: argl + arg2
- sum(10, 10)

EXTRA OPERATORS

- ** Exponent
- // Floor Division
- +=, -=, /=, *=, %=, **=, //=,