* Data Types and Variables
  + Understand the concept of variable 'scope'
  + int/float/str  - Able to change from one type to another.
  + boolean, None,
  + Understand range and the start/stop/step parameters
  + Collections - list, tuple, dict,  set
* String specifics
  + Concatenating with +
  + Understanding string slicing
  + Using strip.
  + Using split
  + Using join
  + Using for to iterate through a string
  + Familiar with other string methods (.count, .lower, .upper, .title, .capitalize, etc.)
  + Using help(str) to refer to these methods
  + using f-string to create a string
  + precision formatting in f-strings
* Collection Specifics
  + Understand the difference between a tuple, list , set
  + Knowing how to convert - tuple(), list(), set()
  + Understanding The Tuple Concepts
    - Able to create a tuple
    - Able to access a value in a tuple based on index position
    - Able to break a tuple into individual variables
    - Able to change values in a tuple using the list conversion technique
  + Understanding the List Concepts
    - Able To Create a list in code
    - Able to add  data to a list in code
    - Able to access a value in a list based on index position (include negative indexes)
    - Able to modify a value in a list based on index position (include negative indexes)
    - Able to remove a value from a list
    - Able to remove the item at a specified index position in a list
    - Able to clear a list
    - Able to iterate through a list with a for loop in code
    - Knowing when/how to use a range() for loop
    - Able to check if an item is in a list
    - Able to make a copy of a list
    - Able to sort contents of a list
    - Using help(list) to refer to list methods
  + Understanding Set Concepts
    - Able to create a Set
    - Using help(set) to review set methods
    - Able to union sets
    - Able to add a value to a set
    - Able to add a list of values to a set
    - Able to remove a value from a set
  + Understanding Dictionary concepts
    - Able to create a Dictionary
    - Able to create a dictionary
    - Able to add a key/value pair to a dictionary using square brackets
    - Able to modify a key/value pair to a dictionary using square brackets
    - Able to get a value in a dictionary based on a key
    - Able to check if a key is not in a dictionary
    - Able to iterate through the keys of a dictionary with a for loop
    - Able to iterate through a set with a for loop in code
  + Know the difference in concepts between Tuple/List/Set/Dictionary
* Functions
  + Understanding the three important signature aspects of a function
    - Name
      * Able to recognize the function name
      * Able to write code to call a function by name
      * Able to call a function by name when in a module
    - Input Parameters aka 'arguments'
      * Able to identify the input parameters of a function
      * Able to define default input parameters in a function
      * Able to define a function with 'keyword arguments'
    - Return value
      * Able to identify what data type is returned in a function
* if/elif/else
  + When to use them together
  + When to use a single discreet 'if'
* for loops with the range function
  + Understand Start/Stop/Continue input variables?
  + When to do it
  + How to do it
* For loops with 'iterables'
  + Know What is an iterable
  + Able to name five data types that are iterables
  + Able to write an example of each with a for
* While Loops for data state changes
  + Able to write an example  of reducing a value to a point
  + Able to write an example  of increasing a value to a point
* File IO
  + Understand how a file is structured
  + Understand the concept of a newline character
  + Know how to open a file in code
  + Know how to close a file in code
  + Know why and how to use 'with'
  + Know the difference in r/w/a modes
  + Know how to use read() method in code
  + Know how to use readline() and readlines() method in code
  + Know how the write() method works
  + Know how to iterate through the lines of a file
  + Understand the csv file structure (including headers)
  + Know how to make a csv reader in code
  + Know how to iterate through a csv reader in code
  + Know how to make a csv writer in code
  + Know how to use writeline() and writelines() on a csv write
  + Know how to use a DictReader to read csv data
  + Know how to use a DictWriter to write csv data
  + Understand fieldnames with DictReader/DictWriter
  + Know how to check if a file already exists using the os module
  + Know how to delete a file using the os module
  + Know how to delete a directory using the os module
  + Understand the use of the filecmp function
  + Know how to use help(csv)
* Modules
  + Using a standard module such as math or csv
  + Using help with the math/csv module
  + Using a 'custom' module to get data
* JSON Module
  + Understanding the JSON Module Functions
    - Able to recognize json.loads to convert from string data
    - Able to recognize json.dumps to convert to string data
    - Able to recognize json.load to load a file to a json object
    - Able to recognize json,dump to write a json object to a file
  + Know how to use help(json)
* Socket Module
  + Know how to use help(socket)
  + Understanding the socket module
    - Able to recognize how to create a socket
    - Able to recognize what bind does
    - Able to recognize what listen does
    - Able to recognize what accept does
    - Able to recognize what send and sendall do
    - Able to recognize what recv does
    - Able to recognize what close does
* DateTime Module
  + Understanding the datetime data class
  + Able to convert a string into a datetime via a format
  + Able to convert a datetime to a string via a format
  + Know how to use help(datetime)
* Multiple Choice Type Questions
  + Know how to solve questions that ask:
    - Which Function is best to use for a specified purpose?
    - What does this line do/what is its purpose?
    - What is the error or how can an error be fixed?
    - What is the output of specified code?
    - What is the data type of a variable?
  + Ability to debug code via code line review
  + Ability to identify the output results of a function by code walkthrough