Learning Objectives Post-Exam 2

The final is comprehensive, but will focus a bit more heavily on material post-Exam 2. The new learning objectives thus are:

Chapter 10: Students should be able to: resume,,

Ol:

Create a new simple class from scratch with an appropriate constructor that defines new attributes for

O1:

Create a new simple class from scratch with an appropriate constructor that defines new attributes for the class.
O2:

Write getter and setter methods to retrieve or manipulate class attributes.
O3:

Define a dunder method so that instances of the class are printed nicely to the screen.

O4: □ Create objects which are instances of a custom defined class.O5: □ Use receiver syntax to call class methods on an instance.

Chapter 11: Students should be able to: resume,,

O6: □ Add, remove, and change key/value pairs in an existing dictionary.
O7: □ Access or lookup values corresponding to different keys in a dictionary.

O8: ☐ Iterate through a dictionary.

O9: \Box Create a Python set object with a non-zero number of valid elements.

O10: \Box Utilize built-in methods for set objects to compare or check membership.

Chapter 12: Students should be able to: resume,,

O11: \Box Choose appropriate data structures for a given type of information

O12: \Box Comfortably nest data structures within others to model and store more complicated data

O13: \square Retrieve or select specific information from within a nested data structure

O14: $\Box\,$ Read JSON data from an external file into native Python data types

O15: \Box Use a provided ADT, given its documentation

O16: \Box Utilize a data structure to make a program or piece of a program data-driven, wherein the provided data structure dictates the flow of the program.

O17: \Box Convert a data structure from an *external format* as it is written in some text file to an *internal format* using some hierarchical combination of custom or built-in objects.