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CSC\_157\_Lab\_07\_QA

1. What is the purpose of this function? **def \_\_init\_\_()**

This function is the initializer for the class. It takes “self” as it’s first argument and any number of other arguments, and is used to initialize data attributes / class properties. It can be extended in subclasses by calling the super class superclass.init() function within the subclass init function.

1. Is **self** considered a keyword in Python?

“Self” is not a keyword but is conventionally used as the first argument in a class definition. Please use “self” and not “this” because you might confuse JavaScript developers.

1. What is meant by object - oriented programming?

OOP is a paradigm that programmers follow to develop modular, abstracted, extensible, and in most languages, strongly typed and reliable code to be used in complex systems. It has several key characteristics, including an encapsulating interface with public methods (getters and setters) and private, protected data attributes, as well as inheritance and polymorphism, which enables us to create subclasses from superclasses and variable instances or objects of these classes.

1. How are text files used in your program code for this project?

Text files are used as data sources in this project. Typically, in a production application, data sources are delivered over a network via REST (or SOAP) API, which involves latency that must be accounted for by writing “asynchronous” code (according to Python documentation, using “coroutines” and async / await syntax in function definitions). In JavaScript, we use a similar async/await syntax to await results from a network resource and force synchronous execution of code.

1. What have you learned from performing and coding for this lab assignment?

Freshened up on classes and OOP in Python.