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CSC\_157\_Lab\_08\_QA

1. **What is Tkinter? How is it similar to Turtle Graphics?**

Tkinter is a GUI (graphic user interface) library that is rolled into all Python standard distrubutions. It enables developers to build applications that run in an operating system’s dialog windows. It is similar to turtle graphics in that it displays program output.

1. **When coding GUI applications, how does a radio button differ from a check box?**

A radio button allows for only one selection at a time, while a checkbox allows for multiple selections.

1. **What was the purpose of the [ Load ] button that was used in your application?**The “load” button pulls the “name” and “phone” tuple from the selection in the contact list and sets them to mutable global variables that are displayed in the GUI inputs.
2. **How are text files used in your program code for this project?**Text files (.txt) are not used in my program, as I followed the suggestion to pickle my updated contact\_list and load it on first paint. I set some conditional logic using a ternary expression to unpickle the saved contact list if one exists, or else use the default contact list (which is a py file).   
     
   Pickling converts data into a byte stream that is more wieldy than a text file, as you can “pickle” a python data type (e.g., a list or a dict) into a byte stream and “unpickle” it elsewhere (e.g., in a module or from a database) back into the original data type without having to parse a .txt file.
3. **What have you learned from performing and coding for this lab assignment?**I learned a bit about pickling, OS file I/O, create/read/update/delete (CRUD) in a Python GUI application, and some of the methods in the tKinter library.