

Lab exercise set 4

Due Wednesday, April 22nd, 11:59 pm

Logistics

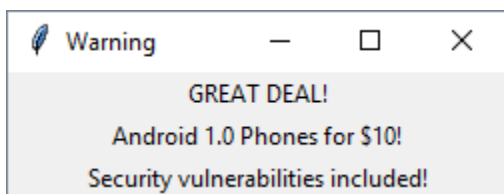
You are encouraged to work in groups on lab exercises. If you do work with someone, you must include the name(s) of your collaborator(s) at the top of the file you submit. For more information about collaboration policies in this class, see the Academic Integrity policy.

If you complete the lab exercise early, please review Chapter 9 in the textbook and work on the fourth assignment or study for the midterm exam. You must remain in the lab for at least 45 minutes to earn full credit. You are only allowed to work on assignments with at most two-other people, either directly or indirectly, who must be formally identified as part of your assignment submission. Please see the assignment description and the course Academic Integrity pledge for the full description of the process you must follow when completing assignments. If you need additional help on the assignment, please ask the lab assistant.

Exercise

Begin the lab by downloading the template file (**csc242lab4.py**) contained in a zip file from the D2L site. There is an example named HellowWorldObject.py we covered in class that you can look at.

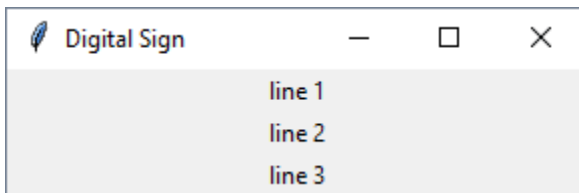
1. Implement a simple window that will be used to display electronic signage. The window should be implemented as a class named **Sign**. I have given you some code to get started. The window should look exactly follows. The text in the window needs to be displayed ***exactly*** as shown for full credit.



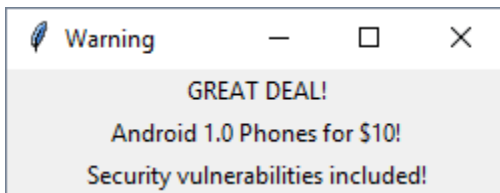
2: Modify the **Sign()** class to take in an optional parameter of type list that has 3 sentences that can be displayed on the screen. If there aren't three items in the list, then the default message as shown in problem 1 will be displayed.

Example usage:

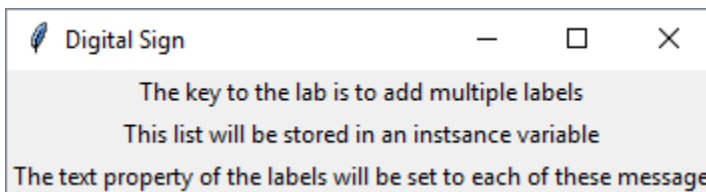
```
21 solution.py
>>> lines=['line 1','line 2', 'line 3']
>>> Sign(lines).mainloop()
>>> |
```



```
>>>Sign().mainloop()
```



```
>>> lst=[]
>>> lst.append("The key to the lab is to add multiple labels")
>>> lst.append("This list will be stored in an instance variable")
>>> lst.append("The text property of the labels will be set to each of these message")
>>> Sign(lst).mainloop()
```



Submitting the exercises

You must submit your solutions to the exercises using the lab 4 dropbox on [the D2L site](#). Submit only a single Python file (e.g. **csc242lab4.py**) with each of the completed functions and classes for the lab exercises in it. Submissions after the deadline listed above will be automatically rejected by the system. See the syllabus for the grading policy.

Grading

The lab session is worth 10 points. If you complete the lab exercises before the end of the lab session, please work on the fourth assignment. Remember that the rules for collaboration on assignments is different from labs. Please review the Academic Integrity policy for more information. If you have questions about the assignment, please ask the teaching assistant for help.