Assignment #2a

ICS2O

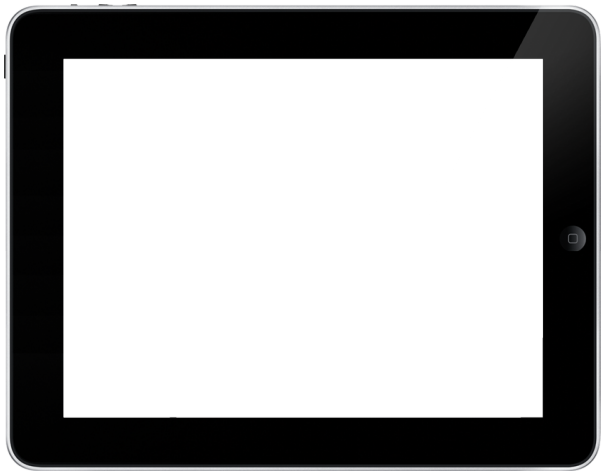
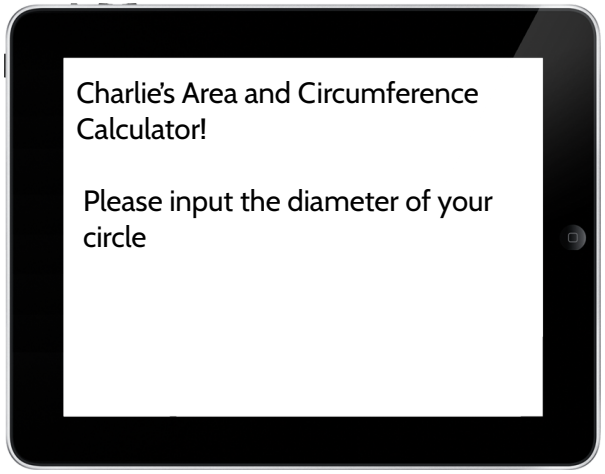
Charlie Pyke

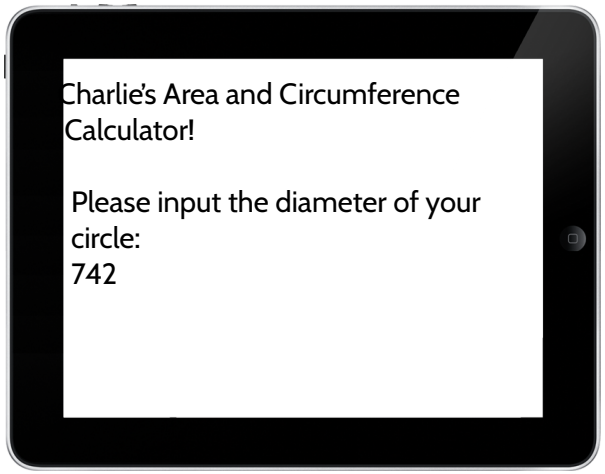
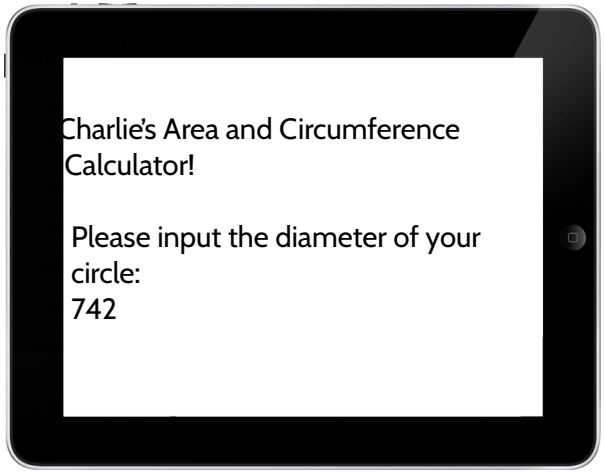
Check List

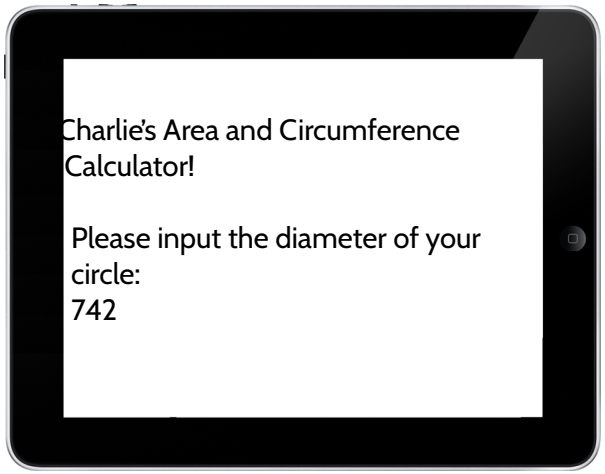
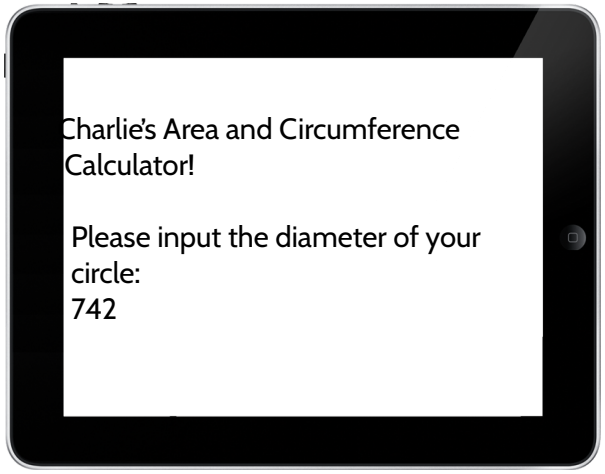
Please confirm you have included everything that is needed.

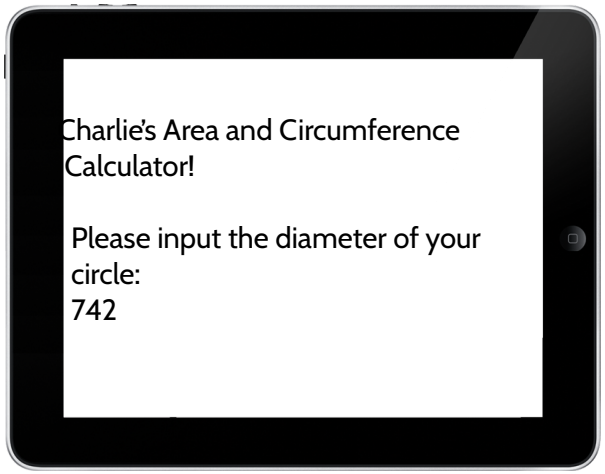
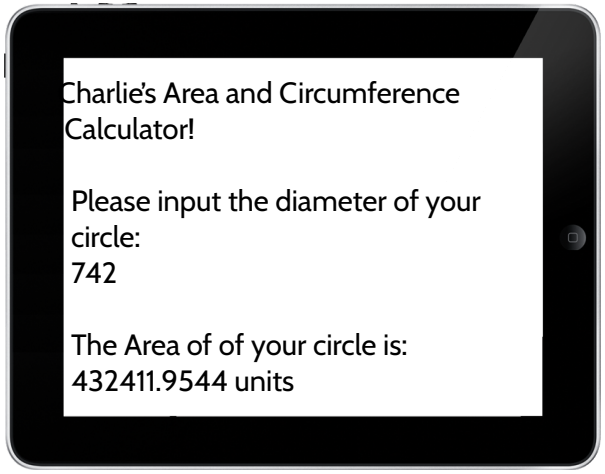
- Cover Page
  - this will include the assignment #, course code and your full name
- Check List
  - documenting the parts of the assignment that are to be included
- Storyboard(s)
  - Include a new one for each time the screen changes
- Test Cases:
  - at least three (3) test cases (maybe more if it is needed!) done by some other method than your (or some else's) program

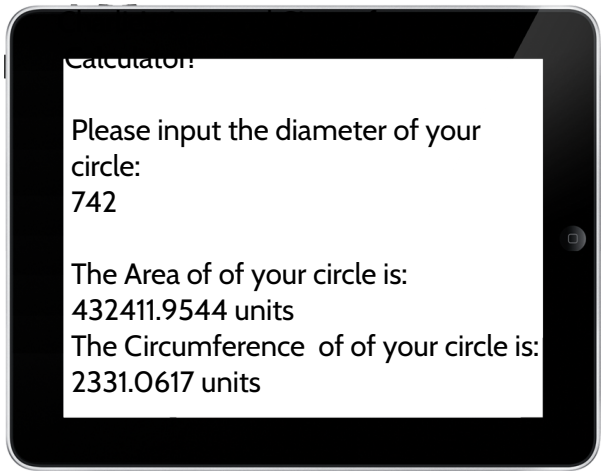
Storyboard(s)

	Python - import definition of Pi User sees nothing
	Give the user a nice message to ask for the diameter

	Gather input from the user
	Do error checking. Is the diameter greater than zero? is it a number? Display a nice error message if not.

	Calculate radius (diameter / 2)
	Calculate the area (A = pi ** 2)

	Calculate the circumference (C = 2 * pi * radius)
	Print a nice message for Area with the value of A

	Print a nice message for the Circumstances with the value of C

Test Cases

Test cases:

1. input -3 : result should be error message
2. input blah : result should be error message
3. input 742 : result should be as shown in story board
4. input 0 : results should be 0 units for both Area and Circumference
5. input 5 : results should be 19.635 units and 15.708 units

Assignment #2 — Marking Rubric

Achievement Category	Max Level
Knowledge and Understanding • Uses fundamental programming constructs • Uses constants, variables, and expressions • Trace the execution of programs to find and correct logic and syntax errors • And others …	
Application • Stores and manipulates numbers and characters in a program • Use appropriate sequences, decisions, and loops to conform to a program design • Validate a program using appropriate data • And others …	
Communication • Proper use of comments • Proper coding style and naming convention • Uses standard GUI design • And others …	
TIPS • GUI, Top-down Design, Pseudo-code • Test cases • And others …	

Level 1 ***(50-59%)***	**Level 2** ***(60-69%)***	**Level 3** ***(70-79%)***	**Level 4** ***(80-100%)***
- shows little understanding of … *- rarely adheres to …*	*- shows some understanding of …* *- mostly adheres to …*	*- shows understanding of …* *- adheres to …*	- shows understanding of … in more than 1 language *- completely adheres to …*