***Note: I didn’t assign the 4 function calculator Winter 2016, but I modified the instructions. I hope I can use them again next year!***

**Introduction**

The purpose of this lab is to give you practice adding settings for an app.

**Add Settings to the Four-Function Calculator**

Modify the Calculator you did in a previous lab so that the user can make the following settings using the iOS Settings app:

1. Display mode, provide two choices:  
   (Hint: Use *String.Format* to implement these formats in your calculator app)
   * Floating-point
   * Fixed-point
2. Display precision: The number of places after the decimal in fixed-point. This should have no effect on the floating-point display mode.
3. Number system: Choose between decimal and hexadecimal. If the user chooses hex, it will only affect the display, not the entry of numbers. Note that you can pass the code “X” to *ToString* or to *String.Format* to convert to hexadecimal.
4. Background color: Black background vs. White background (or another color combination of your choice).

Provide defaults in the plist file for all of the settings.

Optional feature: When the number system is set to hex, add the 6 extra buttons so the user can enter hexadecimal numbers.

**Alternative lab assignment**

Propose an app of your choice that uses a similar number and type of settings.

**Submission:**

Zip the solution folder and upload it.  
Put the screen shots in a document, label each screen shot, and upload the document.