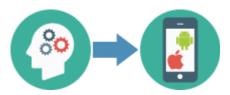# Mobile App Development
## CS 4153

## Weekly Assignment 06
Last updated: Sep 26, 2017   10:30 AM

*It is important that the user interfaces of our apps be appealing and predictable in a variety of display sizes, aspect ratios, and orientations.  In this assignment, we will use auto layout to adapt the weekly assignment #2 app (ounces $\leftrightarrow$ milliliters) to work on a variety of iPhones.*

1.  Create a new, Swift 4 project in Xcode 9-beta or production.  Name the project
    *W06_ lastName_firstName*
    where *lastName* is the part of your name that OSU considers to be your last name, and *firstName* is your first name.  (This is the product naming convention we will use for all weekly assignments.)

2.  You may use the code found in your weekly assignment #2 solution as a basis for the new app, or you may want to rewrite that solution based on new knowledge and skills you've acquired since then.

3.  The app has a button labeled "oz" and another labeled "ml".  Based on the units currently displayed in the text field at the top of the display, the label of the button for those units should be **bold** and some distinctive color; the other button should be the normal weight and color.

4.  The text field at the top of the display should extend from the left margin to the right margin.

5.  Viewed as a collective, the numeric, "C", and "." buttons should be arranged in a rectangle that is centered horizontally within the display.  Depending on the device and its orientation, you may wish to make changes to the collective to make the app more attractive or easier to use.  Changes could include such things as:
    o   The number of button rows and columns.
    o   The spacing between the buttons.

6.  Your app must work in upright portrait and both left & right landscape orientations for the following devices:
    o   iPhone 4s
    o   iPhone SE
    o   iPhone 7 and 7 plus (if you are using Xcode 9 beta)
    o   iPhone 8 and 8 plus (if you are using Xcode 9 production)

**General Notes**

- We will be talking about auto layout in lecture. You also may want to look at other sources, such as our iOS textbook or online descriptions/tutorials, such as [this one at RayWenderlich.com](#).

**Submitting Your Solution**

- Zip your project folder into a single file, go to the course BrightSpace site, navigate to the *Dropbox* page, and submit the zip file in the folder that corresponds to this assignment.

- If you use the Xcode 9 production version, please add a note in the Dropbox to indicate that fact.