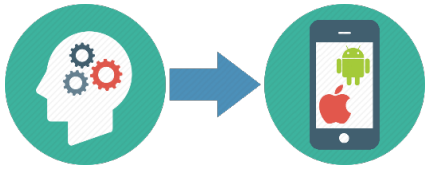
Mobile App Development

CS 4153



Weekly Assignment 01

Last updated: Aug 22, 2017 9:30 AM

This assignment will give you an opportunity to try out the Swift programming language using the playground environment of Xcode 9-beta.

1. Create a new, Swift playground in Xcode 9-beta. Name the playground
   W01_ 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. Declare and initialize a variable named *octal* that contains an integer that represents an octal (i.e., base 8) number.
3. Write Swift code that converts the octal number into its decimal (i.e., base 10) equivalent.
   - Do not use any built-in, API, or library code to do the conversion; rather, write your own code that performs the conversion mathematically.
4. Print the result.

Submitting Your Solution

- An Xcode playground actually is a folder. Zip the playground, go to the course BrightSpace site, navigate to the *Dropbox* page, and submit the zip file in the folder that corresponds to this assignment. (To zip a folder or playground on a Mac, right-click on the folder or playground and choose *Compress* from the context menu that appears.)

General Notes

- Since this is a senior/graduate-level course, you are expected to use good programming style and practices for all assignments this semester. For example, you should make appropriate use of meaningful identifiers, modularization, comments, blank lines, and indentation. Take a look *Swift Style Guide* (December 2016 update) provided by Ray Wenderlich.
- Download the *Swift Programming Language* ePub book to learn more about Swift 4.0 syntax and semantics.
- To download Xcode 9 for your own computer or use the tutorials and other resources provided by Apple, sign up for a free developer account at http://developer.apple.com.
- Look at our Swift textbook to learn more about Swift programming.
- Points will be deducted for extraneous semicolons and for extraneous parentheses in flow control statements (loop and decision statements).