

Assignment 4

CSCI 5737.01 – Mobile Applications Development, Fall 2017

Due Date: 12-03-17, 11:55pm

Submission Guidelines

Prepare a folder that contains Xcode project and upload the zipped folder to Blackboard.

Penalty for Late Submission

Late submissions not accepted.

Description of Assignment

Design and develop a Single View iPhone application using Swift and Autolayout that converts a decimal number to binary, octal and hexadecimal numbers using the following algorithms:

- Decimal to Binary:

	Quotient	Remainder
167/2 =	83	1
83/2 =	41	1
41/2 =	20	1
20/2 =	10	0
10/2 =	5	0
5/2 =	2	1
2/2 =	1	0
1/2 =	0	1

The Binary equivalent of 167D = 10100111B

- Decimal to Octal:

	Quotient	Remainder
167/8 =	20	7
20/8 =	2	4
2/8 =	0	2

The Octal equivalent of 167D = 247Q

- Decimal to Hexadecimal:

	Quotient	Remainder
167/16 =	10	7
10/16 =	0	A

The Hexadecimal equivalent of 167D = A7H:

Following are the specific requirements:

- You must use ***Swift*** as programming language in the Xcode project
- You must design your UI using ***Auto Layout*** so it looks consistent across different screen sizes (4inch, 4.7inch and 5.5inch)