# CSCI 2410 –Assignment 5

# GENERAL INSTRUCTIONS

## Reading Assignment

You should begin by reading chapters 7 and 9 of the class book.

Read the section about Encoders in your book. The circuits of interest are discussed in this section of the book. Look for:

* Ring counters
* 8-to-3 Encoder
* Chip #74148
* Switch Encoder
* Keypad 3-Digit Number Entry

## Problem

Open the **assg05.circ** Logisim file. This file is a copy of the Keypad 3-Digit Number Entry circuit. This circuit is designed to accept a three digit decimal number. Press the CLEAR button, and then enter a three digit number. Now enter a second three digit number. Notice that the second number overwrites the first number.

Make the necessary modifications to this circuit so that after three digits have been entered, any additional digits will be ignored until the CLEAR button is pressed. In other words, if 3095 is entered on the keypad, the output registers will display 309 and will ignore the 5 and any subsequent digits until the circuit is cleared.

This project will only require your circuit file to be turned in. Save your circuit file and upload it through Canvas. Only the modified circuit file needs to be uploaded. Please rename the circuit file to add your pirateID to it, 5 points will be reduced from the grade for students who do not include their pirateIDs in the filename.