Design Assignment 5

CpE 301   **Due: Monday, March 6th, 2017 by 11:59pm**   **Spring 2017 (Dr. Harris)**

Description

The goal of the assignment is to write a program that writes the phrase: "System unlocked" on the LCD when the user presses the correct series of keys from the keypad. The series is 5-2-7. Each series of 3 key entries should also be displayed on the LCD.

Note: Dr. Harris will provide hints and sample code soon.

What to Turn In

The following must be submitted via WebCampus by the due date/time to receive credit for the assignment. Messy, difficult to understand, or disorganized work will receive no credit.

Total points available: 100

0. **Time:** Indicate the amount of time this assignment took in hours. This will not affect your grade (unless omitted) but will help gauge the workload for this and future semesters. **[-5 points if omitted]**

1. **A pdf or word document** that contains details about your design. Be sure to submit them **in this order**:
   a. A 1-paragraph description of your design. **[15 pts]**
   b. Your program, which must have been built (i.e., compiled/assembled) and working. The code should be clear, well-formatted, and well-documented. **[40 pts]**
   c. A flow chart of your programs (hand-drawn is fine as long as it's legible). **[15 pts]**
   d. A schematic of your hardware (again, hand-drawn is fine as long as it's legible). **[15 pts]**
   e. A link to a ~1-2 minute Youtube video showing your programs working in hardware. **[15 pts]**