CSCI 255 – Intro to Embedded Systems
Homework #6
Fall 2013

Work must be done individually

Due: **10/9/2013** by **11:59 PM** to dvalles@mtech.edu

1 - Develop an assembly program in which has the following sequence of outputs:

- The RED LED (**P1.0**) blinks three times; then,
- The GREEN LED (**P1.6**) blinks twice; then,
- RED & GREEN LEDs alternate blinks forever or until unplugged from power
- Send your **main.asm** file
- Make **sure** that it work on the MSP430

Grade will depend if the code runs on the MSP430, code syntax and comments. Make sure to use the header on your file as you do for the labs.

Due: **10/9/2013** at the beginning of class

2 – Circuit Design: **1-bit Multiplier**:

- Develop the Truth Table
- Use a K-map to derive the "best" circuit for the multiplier; provide Boolean expression
- Draw on paper the logic circuit of a 1-bit multiplier
- **In Logism**: Develop a two-bit multiplier and email your **.circ** file by **11:59 PM of the due date** to dvalles@mtech.edu