Laboratory 2 Session 1
Arithmetic/Logic Instructions

Note: You are not allowed to use lookup tables in this assignment. Usage of embedded data in any form to retrieve results will result in 0 from that corresponding part.

Assignment

You will implement multiplication operation for 3 digit numbers in this assignment.

- Type 1 to 3 digit number $x_1 \in [0, 999]$ using keypad and press *.

- Type the second number $x_2 \in [0, 999]$ and press # to finalize input.

- Use the second line of the LCD to display the result.

- Your program should run indefinitely and accept new input after the calculation is completed. You may not assert a reset signal before loading next value.

- You should prepare your display and registers for the next operation after a new input.

Example: $x_1 = 180$, $x_2 = 63$

Keystrokes `180*63#`

Display first line `180x63=`

Display second line `11340`