Digital Code Lock with LCD and Keypad

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Digital Code Lock with LCD and Keypad using AT89C2051

A Brief Description:

This project is written in C language. Its a simple project with efficient hacking prevention from Brute Force etc. The basic user lock is of 5 Digits and Master Lock is of 10 digits so its not easy for an intruder to break the lock unless you keep the code simple. User has maximum of 3 retries.. if fails then Master Locks has to be entered which is of 10 digits. So Complete security is there.
The input is taken from a 4x3 Keypad (please see the schematic for more information) and Display the user input on a 2x16 LCD. A pin is assigned as output for activating and deactivating the lock. For demonstration i have connected an LED to that pin.

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