



Project



Security Code lock

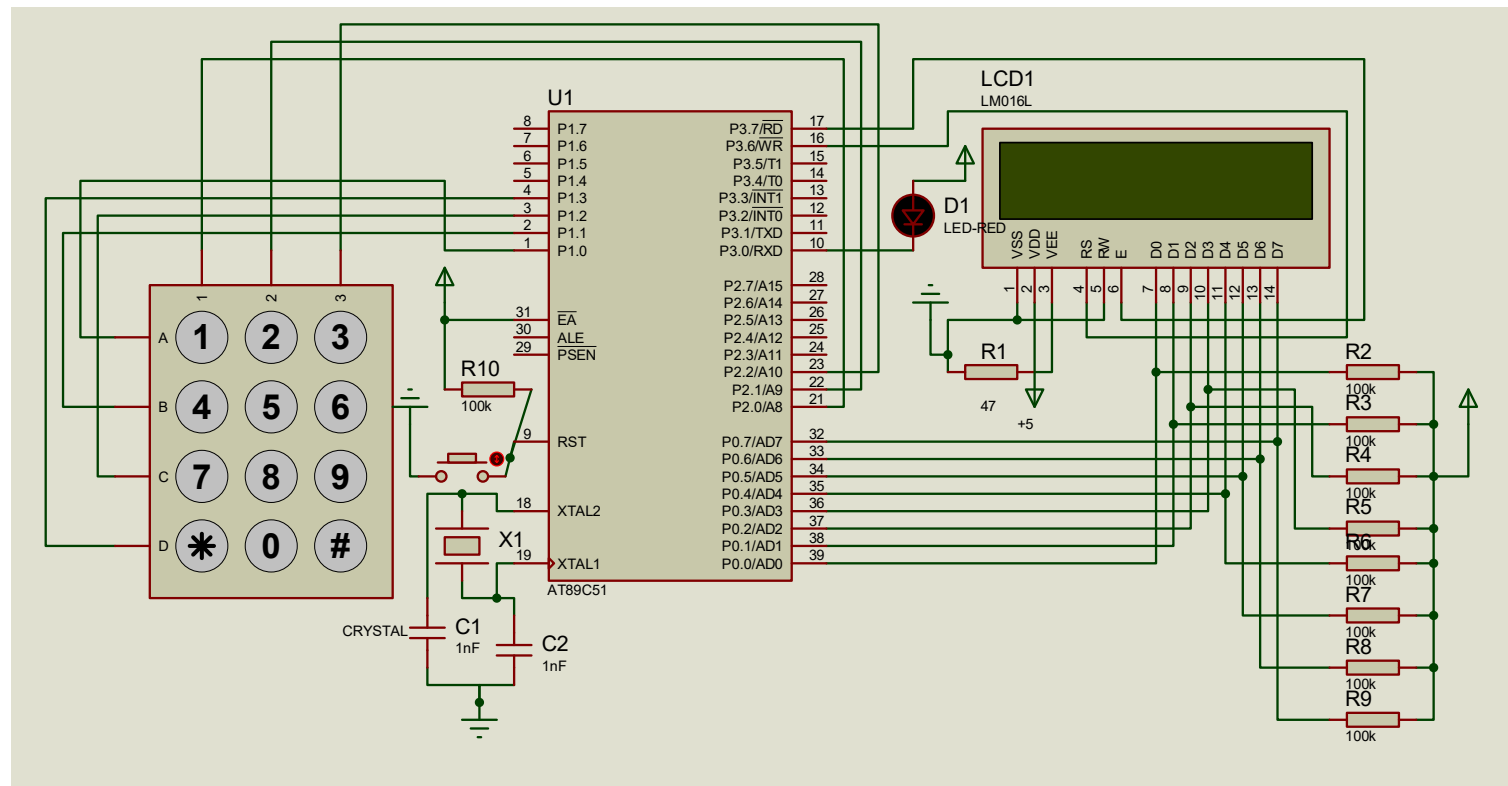
Where we can apply this software:

- To door lock.
- To any security controlled service.

Project Name: To make a Security code lock by microcontroller AT89c51 and using keyboard and LCD

Description: In this project , our work is hardware and software based. At first we make a default password 1111.than we use a change option to give the new password as we wish. To verify the password we have to use 'enter the lock option'.

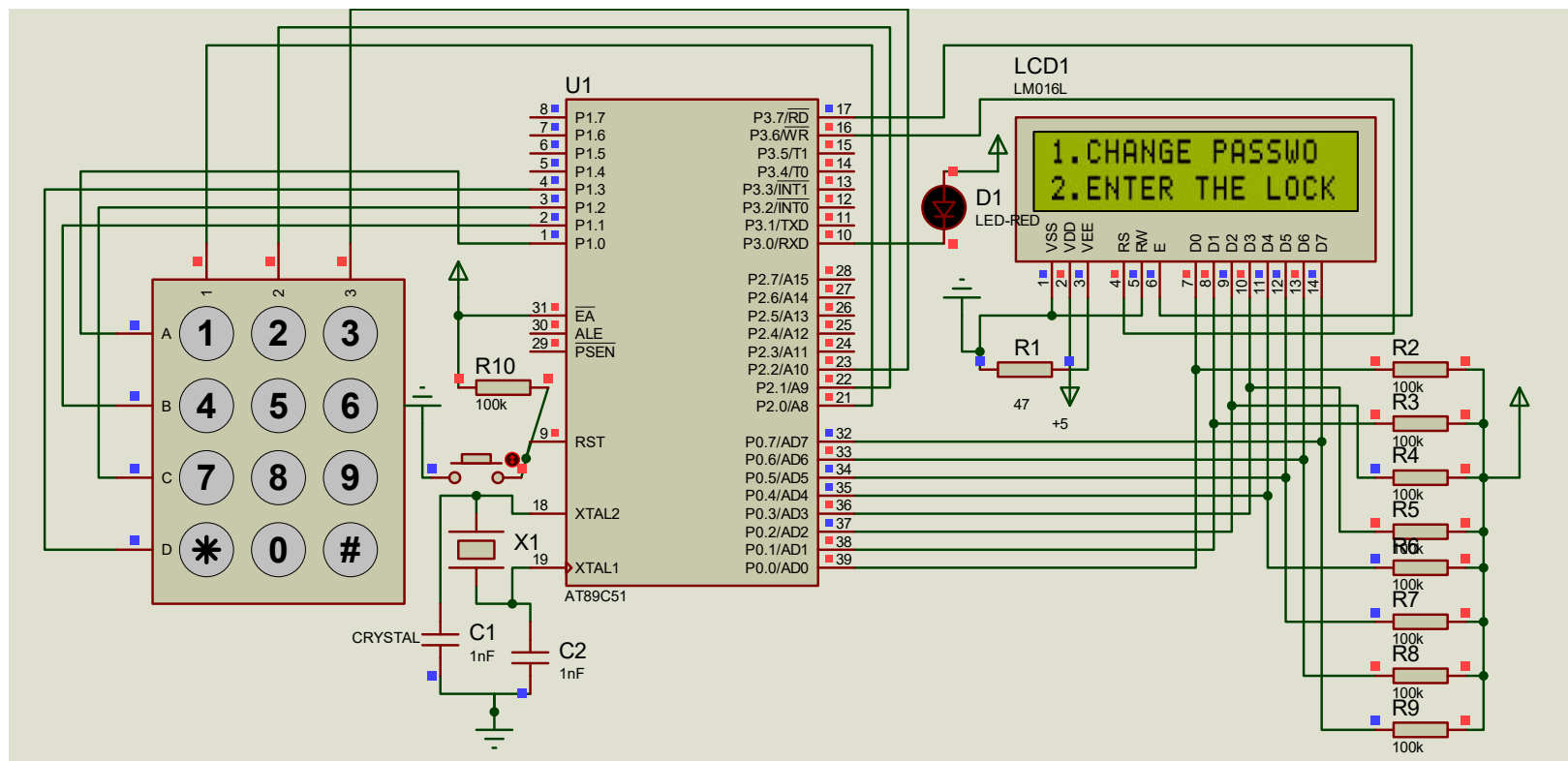
Hardware Design



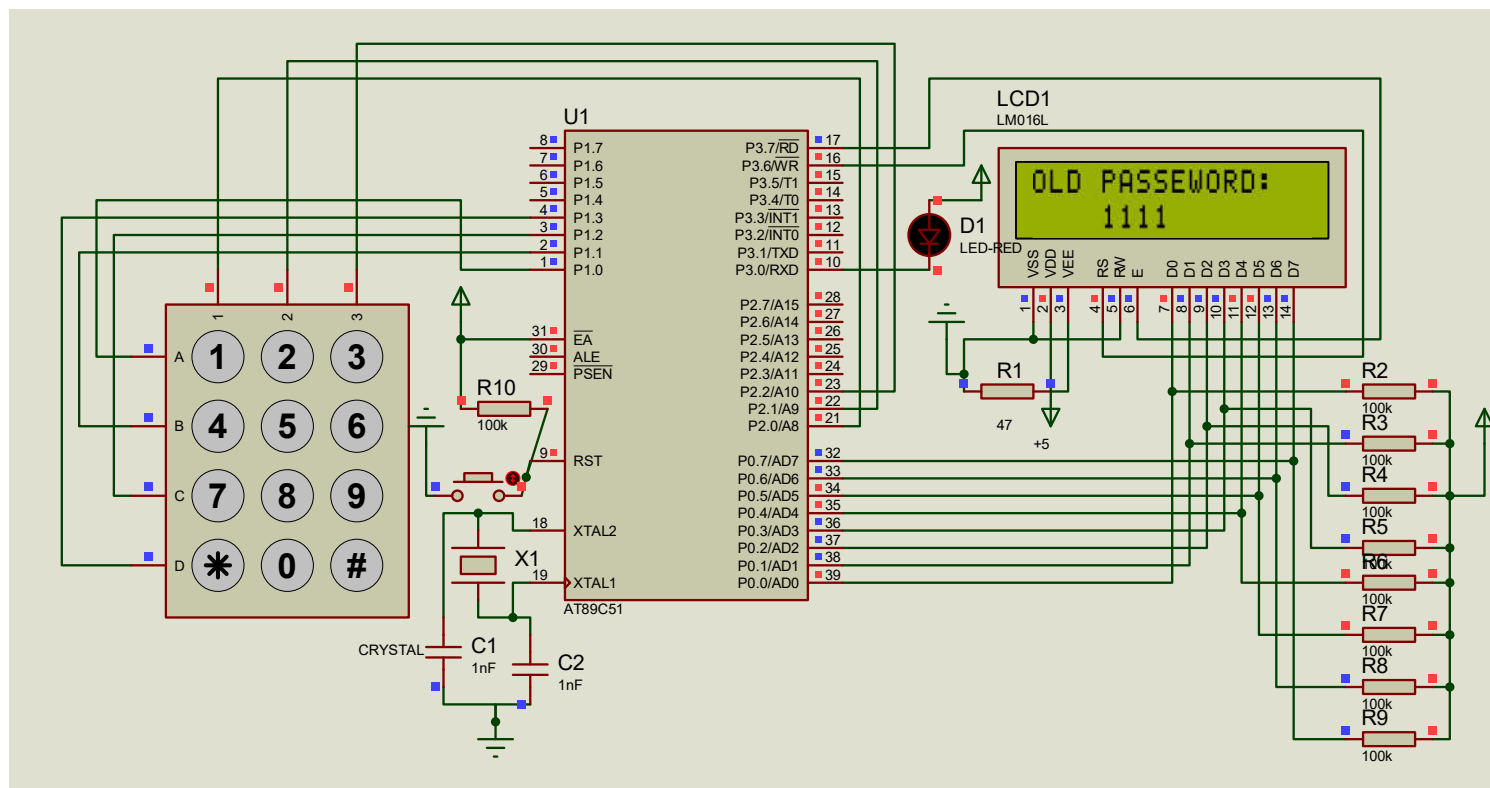
Software Algorithm:

- 1. Here we first initialize LCD
- 2. Than we show our program menu in the LCD
- 3. Option visible in the LCD 1.change password 2.Enter the lock.
- 4. Here default password is 1111.
- 5. To change the password: a. At first we have to give the initialize password.
- b. We have to press 'button 1'and password has been changed.
- 6. To unlock the password: a. We have to 'enter the lock' option, here give the correct password, then the lock open.
- 7. If password has not been matched then lock will not be opened. if wrong password is given three times then software will be locked and we have to follow the first step.)
- 8. If password is matched then password will be unlocked.

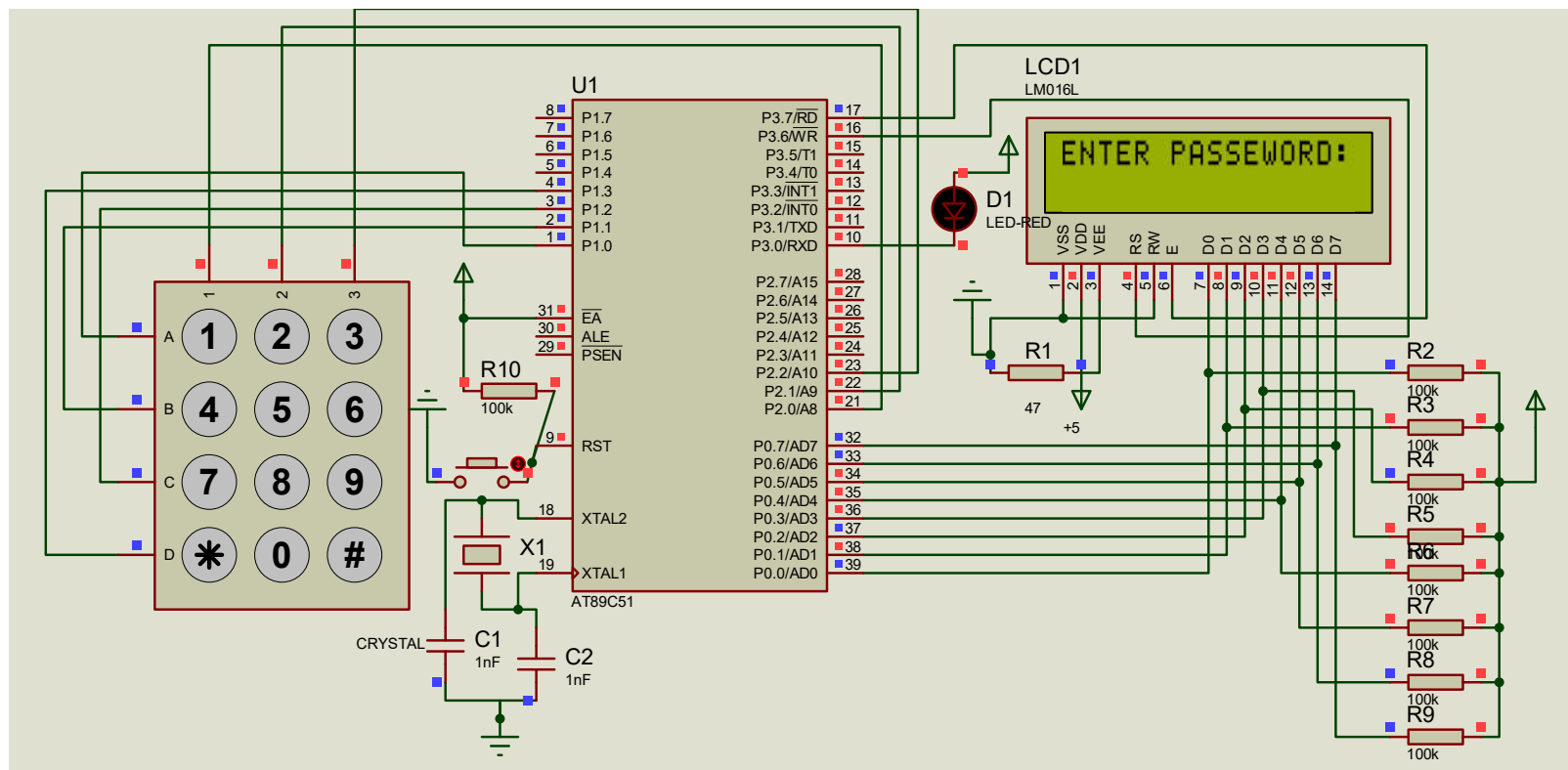
Output



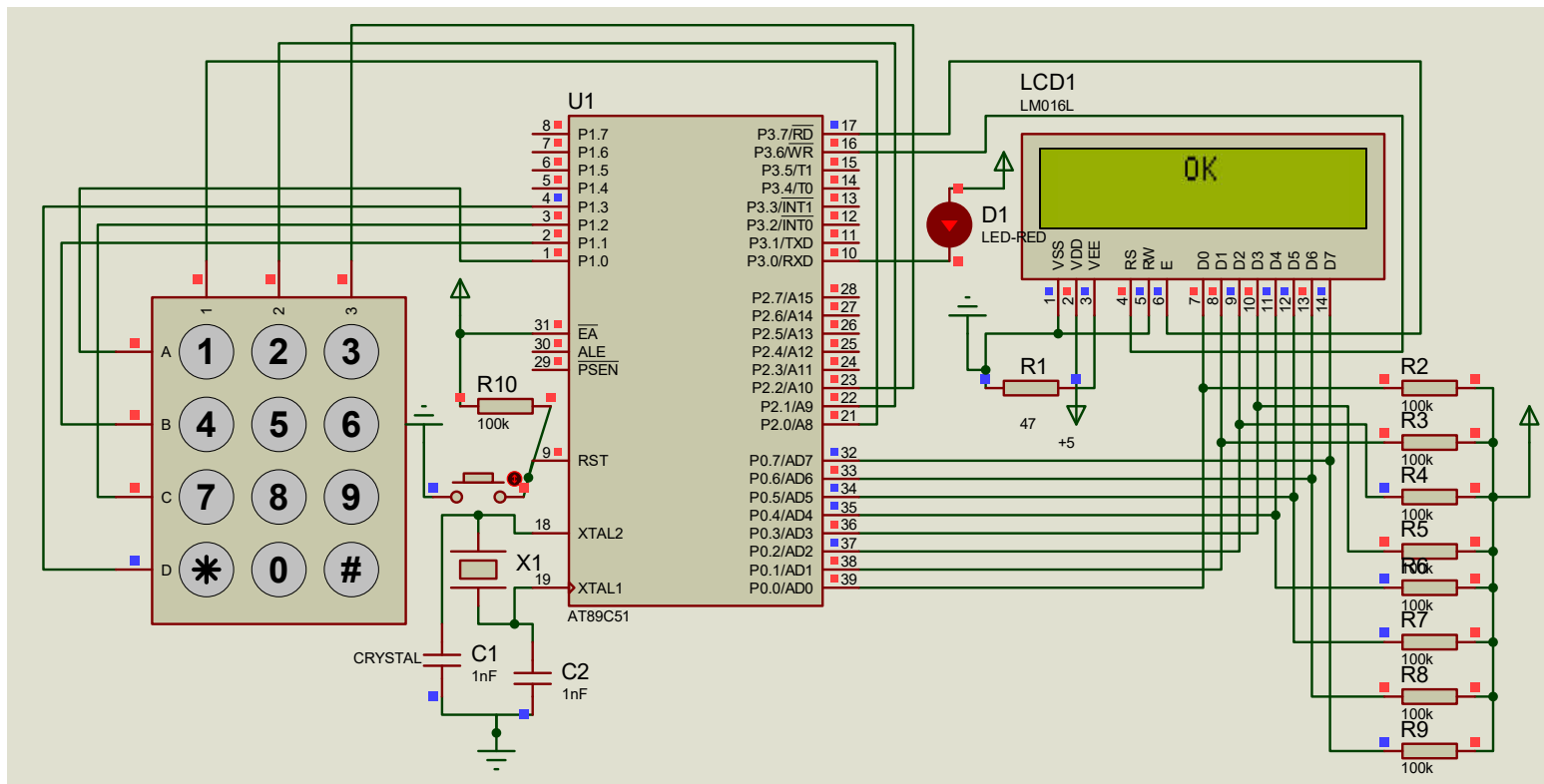
To change the password: (At first we have to initialize the password and 1111 is fixed for our design)



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After verifying the password:



Discussion

In this project we face some problem to make ASM code. When we write scanning keyboard code we mach this code. We face another problem to design this project . here when we use keyboard in port P0 ,it not work. So we connect LCD in P0 and P0 pull-up.



Thank you