PROJECT TOPIC

Design and Construction of Microcontroller Based Electronic Code Lock System with Extra Administration Password for Multiple Users in Banks

Abstract:

The issue of security is very paramount in any organisation, especially such organisation as a bank. Therefore we intend to aid in security of the bank by bringing in an electronic code lock system that involves an individual to enter a password before getting an access to some items, a particular room or building. This code lock system is not just the normal single-user code lock system that required a user to insert an already programmed code to gain access to a room or safe; it is a code lock system that has an administrative password and enable multiple user access. By this, we mean that there is room for more than a one user with different unique codes to access the same safe or room. Also, with the kind of security code lock system we intend to implement, if for any reason a user forgets his password, with the help of the administrator user, the user's password can be reset to a default password after which the user can change to a password of his choice. Lastly the administrator has records of log of activities of a user accessing a safe or a room at a particular time or whenever a user changes his password and this will further help the administrator to easily take security measures. The use of microcontroller, keypad, LED display and some other electronic devices coupled together will help in accomplishment of that. Here an individual have to enter a password which must have been programmed in assembly language and this is read from the microcontroller for clarification and verification. From this project, we hope to build an alternative security system for banks.

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