**A DIGITAL SECURITY SYSTEM FOR DOOR LOCK SYSTEM**

**AIM:**

The main aim of this project is to develop a security system using RFID technology.

**PURPOSE:**

The purpose of this project is to design an automated and authenticated system for the access of bank lockers using password and RFID technology.

**LOCKER SECTION:**

**MICRO CONTROLLER**

**AT89S52**

**POWER SUPPLY**

**LCD DISPLAY**

**(16 X 2 LINES)**

**RFID READER**

**BANK LOCKER**

**KEYPAD**

**BUZZER**

**DRIVER CIRCUIT**

## 

**DESCRIPTION:**

In the present world everyone knows the importance of security. As the technology improving we are trying to implement these kind of techniques to protect user individuals. There are different ways to provide security here we are providing security by assigning password.

The project consists of a locker section, in which we have a RFID reader which reads the tags of the user. RFID is used for identification purpose. Each user is provided with a RFID tag with unique identification number. Here this project is used in banks for the user to access their lockers. When a person want to access or open his/her locker, they need to place the RFID tag before the RFID reader. Whenever an authorized person wants to access the system then a specified password has to be entered. According to the password which has been entered using keypad concern locker will be operated and status will be displayed on the LCD. If the entered password is wrong then the system will wait until you enter correct password through keypad. If the tag is not a valid one then buzzer will buzz.

**HARDWARE:**

1. Microcontroller (AT89S52)
2. LCD display (16\*2 lines)
3. Keypad
4. Driver circuit
5. Bank locker system
6. Buzzer
7. RFID reader
8. Power Supply
9. MAX 232

**SOFTWARE:**

1. Kiel U vision
2. Express PCB
3. ISP

**RESULT:**

By using this project we can implement an authentication system for the secured devices.