Access control system, a simple version, there is no password, just identify the card number, according to determine whether the card number is correct, to judge the opening does not open the door.

Experimental procedure:

The card's number is :

93D3458C89

set the new card password, and can modify the data of the Sector: 1OK!

Read from the card ,the data is :

84101110103326611100000000

1. The routine 32.RFID module experiment to burn the board inside。

The following is the serial data read:

The card's number is :

93D3458C89

set the new card password, and can modify the data of the Sector: 1OK!

Read from the card ,the data is :

84101110103326611100000000

Write down the 93D3458C89; then it is the key.

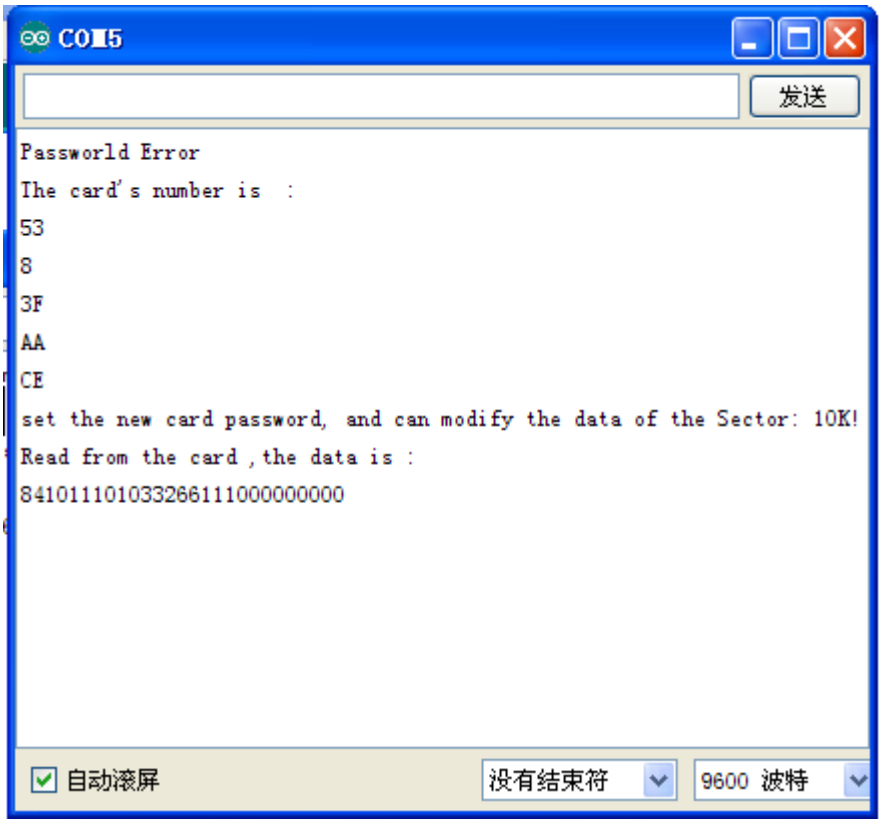
unsigned char Key_Test[5]={0x93,0xd3,0x45,0x8c,0x89};//Key password (that is, the card number)

As long as the order change, the value of the inside, on the OK

For example, I have a card number is： 53 ,8 ,3F ,AA ,CE;

Andthe unsignedcharKey_Test[5]={0x93,0xd3,0x45,0x8c,0x89};

Change unsigned char Key_Test[5]={0x53,0x08,0x3F,0xAA,0xCE};



```
//数组最大长度
#define MAX_LEN 16

//////////////////////////////////////////////////////////////////////
//set the pin
//////////////////////////////////////////////////////////////////////
const int chipSelectPin = 10;//如果控制板为UNO,328,168
//const int chipSelectPin = 53; //如果控制板为mega 2560,1280
const int NRSTPD = 5;
const int LED_PIN=2;
//////////////////钥匙参数//////////////////////////////////////
unsigned char Key_buf[5];
//unsigned char Key_Test[5]={0x93,0xd3,0x45,0x8c,0x89};//钥匙密码（也就是卡号）
unsigned char Key_Test[5]={0x03,0x38,0x3F,0xAA,0xCE};
unsigned char Key_Flag=0;
//////////////////////////////////////////////////////////////////
//MF522命令字
```

```
COM5
Password Error
The card's number is  :
93
D3
45
8C
89
set the new card password, and can modify the data of th
Read from the card , the data is :
84101110103326611100000000
```

卡号与设置的不同，所以密码错误。

The following is the correct password

```
#define MAX_LEN 16

//////////////////////////////////////////////////////////////////////
//set the pin
//////////////////////////////////////////////////////////////////////
const int chipSelectPin = 10;//如果控制板为UNO,328,168
//const int chipSelectPin = 53; //如果控制板为mega 2560,
const int NRSTPD = 5;
const int LED_PIN=2;
//////////////////钥匙参数//////////////////////////////////////
unsigned char Key_buf[5];
//unsigned char Key_Test[5]={0x93,0xd3,0x45,0x8c,0x89};
unsigned char Key_Test[5]={0x53,0x08,0x3F,0xAA,0xCE};
unsigned char Key_Flag=0;
//////////////////////////////////////////////////////////////////
//MF522命令字
#define PCD_IDLE              0x00               //NO a
#define PCD_AUTHENT           0x0E               //验证
#define PCD_RECEIVE           0x08               //接收
#define PCD_TRANSMIT          0x04               //发送
#define PCD_TRANSCEIVE        0x0C               //发送
#define PCD_RESETPHASE        0x0F               //复位
#define PCD_CALCCRC           0x03               //CRC计
```

```
COM5
Password    OK
Password    OK
Password    OK
Password    OK
The card's number is  :
53
8
3F
AA
CE
set the new card password, and can modify the data of the Sector
Read from the card , the data is :
84101110103326611100000000
自动滚屏    没有结束符    9600 波
```