#include<SPI.h>

#include<MFRC522.h>

#include<LiquidCrystal.h>

LiquidCrystal lcd(7,6,5,4,3,2);

//creating mfrc522 instance

#define RSTPIN 9

#define SSPIN 10

MFRC522 rc(SSPIN, RSTPIN);

int readsuccess;

/\* the following are the UIDs of the card which are authorised

to know the UID of your card/tag use the example code 'DumpInfo'

from the library mfrc522 it give the UID of the card as well as

other information in the card on the serial monitor of the arduino\*/

//byte defcard[4]={0x32,0xD7,0x0F,0x2B}; // if you only want one card

byte defcard[][4]={{0xC1,0x1A,0x47,0x31},{0xED,0x1F,0x2D,0x83},{0xD3,0xF2,0x17,0x1C},{0xDA,0x44,0x2C,0x3E},{0xDA,0xBC,0x6D,0x3E},{0xEA,0x16,0xBD,0x3E}}; //for multiple cards

int N=10; //change this to the number of cards/tags you will use

byte readcard[4]; //stores the UID of current tag which is read

void setup() {

Serial.begin(9600);

lcd.begin(16,2);

SPI.begin();

rc.PCD\_Init(); //initialize the receiver

rc.PCD\_DumpVersionToSerial(); //show details of card reader module

//pinMode(6,OUTPUT); //led for authorised

//pinMode(5,OUTPUT); //led for not authorised

lcd.print("attendance-rfid");

delay(2000);

lcd.clear();

lcd.setCursor(0,0);

lcd.print("Show your tag");

Serial.println(F("the authorised cards are")); //display authorised cards just to demonstrate you may comment this section out

for(int i=0;i<N;i++){

Serial.print(i+1);

Serial.print(" ");

for(int j=0;j<4;j++){

Serial.print(defcard[i][j],HEX);

}

Serial.println("");

}

Serial.println("");

Serial.println(F("Scan Access Card to see Details"));

}

void loop() {

readsuccess = getid();

int i;

if(readsuccess){

int match=0;

//this is the part where compare the current tag with pre defined tags

for( i=0;i<N;i++){

Serial.print("Testing Against Authorised card no: ");

Serial.println(i+1);

if(!memcmp(readcard,defcard[i],4)){

match++;

break;

}

}

if(match)

{

if(i==0)

{

lcd.clear();

lcd.setCursor(0,0);

lcd.print("SRAVANTHI");

lcd.setCursor(0,1);

lcd.print("RISE");

delay(1000);

lcd.clear();

lcd.setCursor(0,0);

lcd.print("SHOW YOUR TAG");

Serial.println("student1 present");

}

if(i==1)

{

lcd.clear();

lcd.setCursor(0,0);

lcd.print("AJAY");

lcd.setCursor(0,1);

lcd.print("CMR");

delay(1000);

lcd.clear();

lcd.setCursor(0,0);

lcd.print("SHOW YOUR TAG");

Serial.println("student 2 presaent");}

if(i==2){

lcd.clear();

lcd.setCursor(0,0);

lcd.print("SOWMYA");

lcd.setCursor(0,1);

lcd.print("MRIETS");

delay(1000);

lcd.clear();

lcd.setCursor(0,0);

lcd.print("SHOW YOUR TAG");

Serial.println("student 3 present");}

if(i==3)

{

lcd.clear();

lcd.setCursor(0,0);

lcd.print("SRIKANTH");

lcd.setCursor(0,1);

lcd.print("CBIT");

delay(1000);

lcd.clear();

lcd.setCursor(0,0);

lcd.print("SHOW YOUR TAG");

Serial.println("student 4 present");}

if(i==4)

{

lcd.clear();

lcd.setCursor(0,0);

lcd.print("SOWJANYA");

lcd.setCursor(0,1);

lcd.print("CBIT");

delay(1000);

lcd.clear();

lcd.setCursor(0,0);

lcd.print("SHOW YOUR TAG");

Serial.println("student 5 present");}

if(i==5)

{

lcd.clear();

lcd.setCursor(0,0);

lcd.print("YASHMITHA");

lcd.setCursor(0,1);

lcd.print("BHASHYAM");

delay(1000);

lcd.clear();

lcd.setCursor(0,0);

lcd.print("SHOW YOUR TAG");

Serial.println("student 6 present");}

Serial.println("CARD AUTHORISED");

//digitalWrite(6,HIGH);

delay(2000);

// digitalWrite(6,LOW);

// delay(500);

}

else {

Serial.println("CARD NOT Authorised");

// digitalWrite(5,HIGH);

delay(2000);

// digitalWrite(5,LOW);

// delay(500);

}

}

}

//function to get the UID of the card

int getid(){

if(!rc.PICC\_IsNewCardPresent()){

return 0;

}

if(!rc.PICC\_ReadCardSerial()){

return 0;

}

Serial.println("THE UID OF THE SCANNED CARD IS:");

for(int i=0;i<4;i++){

readcard[i]=rc.uid.uidByte[i]; //storing the UID of the tag in readcard

Serial.print(readcard[i],HEX);

}

Serial.println("");

Serial.println("Now Comparing with Authorised cards");

rc.PICC\_HaltA();

return 1;

}//