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/*
 * Read a card using a mfrc522 reader on your SPI interface
 * Pin layout should be as follows (on Arduino Uno):
 * MOSI: Pin 11 / ICSP-4
 * MISO: Pin 12 / ICSP-1
 * SCK: Pin 13 / ICSP-3
 * SS/SDA: Pin 10
 * RST: Pin 9
 */

#include <SPI.h>
#include <RFID.h>
#define SS_PIN 10
#define RST_PIN 9
RFID rfid(SS_PIN,RST_PIN);
int led = 7;
int led1 = 8;
int power = 8;
int serNum[5];
int cards[][5] = {
    {147,84,69,252,126}
};
int cards1[][5] = {
    {179,125,81,237,114}
};
bool access = false;
void setup(){
    Serial.begin(9600);
    SPI.begin();
    rfid.init();
    pinMode(led, OUTPUT);
    pinMode(led1, OUTPUT);
    digitalWrite(led, LOW);
    digitalWrite(led1, LOW);
}
void loop(){
    if(rfid.isCard()){
        if(rfid.readCardSerial()){
            Serial.print(rfid.serNum[0]);
            Serial.print(" ");
            Serial.print(rfid.serNum[1]);
            Serial.print(" ");
            Serial.print(rfid.serNum[2]);
            Serial.print(" ");
            Serial.print(rfid.serNum[3]);
            Serial.print(" ");
            Serial.print(rfid.serNum[4]);
            Serial.println("");
            for(int x = 0; x < sizeof(cards); x++){
                for(int i = 0; i < sizeof(rfid.serNum); i++ ){
                    if((rfid.serNum[i] != cards[x][i]))
                    {
                        access = false;
                        break;
                    }
                }
            }
        }
    }
}

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        } else {
            access = true;
        }
    }
    if(access) break;
}

for(int x = 0; x < sizeof(cards); x++){
    for(int i = 0; i < sizeof(rfid.serNum); i++){
        if((rfid.serNum[i] != cards1[x][i]))
        {
            access = false;
            break;
        } else {
            access = true;
        }
    }
    if(access) break;
}
}
if(access){
    Serial.println("Welcome!");
    digitalWrite(led, HIGH);
    delay(10);
    digitalWrite(led, LOW);
    /*delay(1000);
    digitalWrite(led, HIGH);
    delay(1000);
    digitalWrite(led, LOW);*/
} else {
    Serial.println("Not allowed!");
    digitalWrite(led1, HIGH);
    delay(10);
    digitalWrite(led1, LOW);
    /*delay(500);
    digitalWrite(led1, HIGH);
    delay(500);
    digitalWrite(led1, LOW);*/
}
}
rfid.halt();
}

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