|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1c** | **84 44 1e b6** |  |  |  |
| **2c-time** | **a4 da 3d b6** |  |  |  |
| **3k** | **5a 59 75 3c** |  |  |  |
| **4c** | **b0 51 6b 2a** |  |  |  |
| **5c-time** | **34 a9 3d b6** |  |  |  |
| **6k** | **d9 d1 91 d5** |  |  |  |

**ARDUINO – RFID+COUNTER+RELAY**

//RFID

#include <SPI.h>

#include <MFRC522.h>

#include <Servo.h>

#include <TM1638.h>

#include <EEPROM.h>

#define SS\_PIN 10

#define RST\_PIN 9

MFRC522 mfrc522(SS\_PIN, RST\_PIN); // Create MFRC522 instance.

TM1638 module(3, 4, 5);

long int a,x=0,z=300;

uint8\_t EEPROMaddress = 130;

void setup()

{

pinMode(2,OUTPUT);

pinMode(6,OUTPUT);

Serial.begin(9600); // Initiate a serial communication

SPI.begin(); // Initiate SPI bus

mfrc522.PCD\_Init(); // Initiate MFRC522

}

void loop()

{

x = EEPROM.read(EEPROMaddress);

EEPROM.write(EEPROMaddress,x);

String number2 = String(x,DEC);

module.setDisplayToString(number2);

// Look for new cards

if ( ! mfrc522.PICC\_IsNewCardPresent())

{

return;

}

// Select one of the cards

if ( ! mfrc522.PICC\_ReadCardSerial())

{

return;

}

String content= "";

for (byte i = 0; i < mfrc522.uid.size; i++)

{ content.concat(String(mfrc522.uid.uidByte[i] < 0x10 ? " 0" : " "));

content.concat(String(mfrc522.uid.uidByte[i], HEX));

}

String content2=content.substring(1);

delay(1000);

if(content2=="b0 51 6b 2a" || "d9 d1 91 d5"){

digitalWrite(6,HIGH);

delay(2000);

digitalWrite(6,LOW);

x=x+1;

if(x>250){

for (int i = 0 ; i < EEPROM.length() ; i++) {

EEPROM.write(i, 0);

}

x=1;

}

EEPROM.write(EEPROMaddress,x);

String number2 = String(x,DEC);

module.setDisplayToString(number2);

for (a=z; a>=1; a--)

{

digitalWrite(2, HIGH);

module.setDisplayToDecNumber(a,0,false);

module.setDisplayToString(number2);

delay(1000);

digitalWrite(2, LOW);

}

}

}

|  |  |  |  |
| --- | --- | --- | --- |
| **ARDUINO** | **RFID** | **COUNTER** | **RELAY** |
| GND | GND(6) green | GND | GND |
| VCC =5V | VCC(8)/3.3v purple | VCC | VCC |
| 0. | - | - | - |
| 1. | - | - | - |
| 2. | - | - | IN1 |
| 3. | - | DIO | - |
| 4. | - | CLK | - |
| 5. | - | STB | - |
| 6. | - | - | IN2 |
| 7. | - | - | - |
| 8. | - | - | - |
| 9. | RST (7) blue | - | - |
| 10. | SDA(1)black | - | - |
| 11. | MO(3) red | - | - |
| 12. | SIM(4) orange | - | - |
| 13. | SCK(2) brown | - | - |

**PINMODE**