Códigos

// Programa : Sequencial de leds - Teste ATMEGA328

// Autor : Arduino e Cia

int pino\_verde = 4; //Pino ligado ao led verde

int pino\_verm = 5; //Pino ligado ao led vermelho

int pino\_amar = 6; //Pino ligado ao led amarelo

int tempo = 1000;  //Controla o tempo de ativacao dos leds

void setup()

{

  //Define os pinos dos leds como saida

  pinMode(pino\_verde, OUTPUT);

  pinMode(pino\_verm, OUTPUT);

  pinMode(pino\_amar, OUTPUT);

}

void loop()

{

  digitalWrite(pino\_verde, HIGH);

  digitalWrite(pino\_verm, LOW);

  digitalWrite(pino\_amar, LOW);

  delay(tempo);

  digitalWrite(pino\_verde, LOW);

  digitalWrite(pino\_verm, HIGH);

  digitalWrite(pino\_amar, LOW);

  delay(tempo);

  digitalWrite(pino\_verde, LOW);

  digitalWrite(pino\_verm, LOW);

  digitalWrite(pino\_amar, HIGH);

  delay(tempo);

  tempo = tempo-50;

  if (tempo < 100)

  {

    tempo = 1000;

  }

}

**LEITURA TAG**

#include <SPI.h>

#include <MFRC522.h>

#include <Wire.h>

#define RST\_PIN         5          // Configurable, see typical pin layout above

#define SS\_PIN          53         // Configurable, see typical pin layout above

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

String uid1 = "A1 C5 39 48";

String uid2 = "3F 80 BD 89";

String uid3 = "99 92 84 83";

String uid4 = "29 42 95 83";

void setup()

{

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

  SPI.begin();      // Initiate  SPI bus

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

  Serial.println("Approximate your card to the reader...");

  Serial.println();

}

void loop()

{

 // Reset the loop if no new card present on the sensor/reader. This saves the entire process when idle.

  if ( ! mfrc522.PICC\_IsNewCardPresent())

  {

    return;

  }

  // Select one of the cards

  if ( ! mfrc522.PICC\_ReadCardSerial())

  {

    return;

  }

  //Show UID on serial monitor

  Serial.print("UID tag :");

  String content= "";

  byte letter;

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

  {

     Serial.print(mfrc522.uid.uidByte[i] < 0x10 ? " 0" : " ");

     Serial.print(mfrc522.uid.uidByte[i], HEX);

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

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

  }

  Serial.println();

  Serial.print("Message : ");

  content.toUpperCase();

  if (content.substring(1) == uid1) //change here the UID of the card/cards that you want to give access

  {

    Serial.println("Authorized access");

    Serial.println();

    delay(3000);

  }

 else if (content.substring(1) == uid2) //change here the UID of the card/cards that you want to give access

  {

    Serial.println("Authorized access");

    Serial.println();

    delay(3000);

  }

 else if (content.substring(1) == uid3) //change here the UID of the card/cards that you want to give access

  {

    Serial.println("Authorized access");

    Serial.println();

    delay(3000);

  }

 else if (content.substring(1) == uid4) //change here the UID of the card/cards that you want to give access

  {

    Serial.println("Authorized access");

    Serial.println();

    delay(3000);

  }

 else   {

    Serial.println(" Access Denied");

  }

}