DADO

int clockPin = 8;

int latchPin = 9;

int dataPin = 10;

void setup(){

pinMode(clockPin, OUTPUT);

pinMode(latchPin, OUTPUT);

pinMode(dataPin, OUTPUT);

pinMode(2, INPUT);

randomSeed(analogRead(A0));

}

void setBit(int n){

digitalWrite(latchPin, LOW);

shiftOut(dataPin, clockPin, MSBFIRST, n);

digitalWrite(latchPin, LOW);

}

void zero(){

setBit(B00000000);

}

void one(){

setBit(B01000000);

}

void two(){

setBit(B00100000);

}

void three(){

setBit(B01100001);

}

void four(){

setBit(B00101101);

}

void five(){

setBit(B01101101);

}

void six(){

setBit(B00111111);

}

void displaydice(int n){

switch(n){

case 1:

one();

break;

case 2:

two();

break;

case 3:

three();

break;

case 4:

four();

break;

case 5:

five();

break;

case 6:

six();

break;

}

}

void loop(){

if(digitalRead(2)){

int n = random(1, 7);

displaydice(n);

delay(10);

}

}

MONOLOCALE

const int pulsante1Pin = 12;

const int pulsante2Pin = 13;

const int rele1Pin = 2;

const int rele2Pin = 3;

int statoPulsante1 = 0;

int statoPulsante2 = 0;

void setup() {

pinMode(pulsante1Pin, INPUT);

pinMode(pulsante2Pin, INPUT);

pinMode(rele1Pin, OUTPUT);

pinMode(rele2Pin, OUTPUT);

}

void loop() {

statoPulsante1 = digitalRead(pulsante1Pin);

statoPulsante2 = digitalRead(pulsante2Pin);

if (statoPulsante1 == HIGH) {

digitalWrite(rele2Pin, !digitalRead(rele2Pin));

delay(250);

}

if (statoPulsante2 == HIGH) {

digitalWrite(rele1Pin, !digitalRead(rele1Pin));

delay(250);

}

}

RELE BJT

int pin\_bjt = 10;

void setup() {

pinMode(pin\_bjt, OUTPUT);

}

void loop() {

digitalWrite(pin\_bjt, HIGH);

delay(3000);

digitalWrite(pin\_bjt, LOW);

 delay(3000);

}

#include <Wire.h>

//SLAVE

int buttonPin = 2;

void setup() {

Wire.begin(7); //indirizzo dello Slave riportato dal Master

Wire.onRequest(rispondi);

pinMode(buttonPin, INPUT);

}

void loop() {

delay(1000);

}

void rispondi(){

if(digitalRead(buttonPin) == HIGH){

Serial.println(1);

} else{

Serial.println(0);

  }

}

#include <Wire.h>

//MASTER

void setup() {

Serial.begin(9600);

Wire.begin();

}

void loop() {

Wire.requestFrom(7, 1); //indirizzo associato allo Slave

while(Wire.available()){

char c = Wire.read();

Serial.print(c);

}

Serial.println();

}