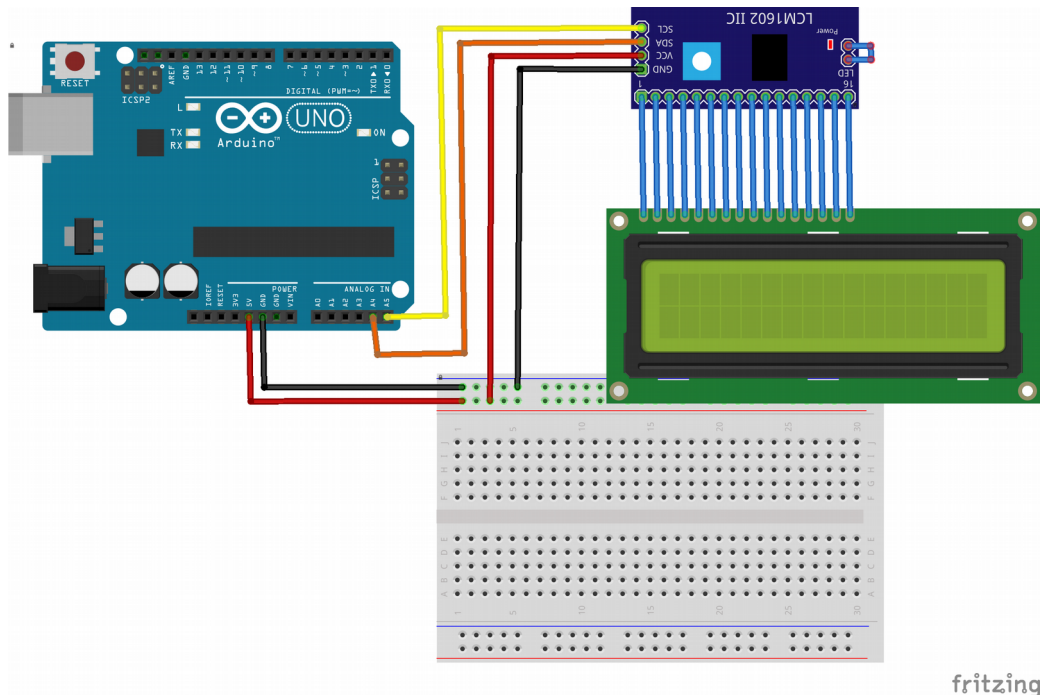


SCANNER DE LCD



Código:

```
/**
 * I2CScanner.ino -- I2C bus scanner for Arduino
 *
 * 2009,2014, Tod E. Kurt, http://todbot.com/blog/
 */

#include "Wire.h"
extern "C" {
#include "utility/twi.h" // from Wire library, so we can do bus scanning
}

// Scan the I2C bus between addresses from_addr and to_addr.
// On each address, call the callback function with the address and result.
// If result==0, address was found, otherwise, address wasn't found
// (can use result to potentially get other status on the I2C bus, see twi.c)
// Assumes Wire.begin() has already been called
void scanI2CBus(byte from_addr, byte to_addr,
               void(*callback)(byte address, byte result) )
{
  byte rc;
  byte data = 0; // not used, just an address to feed to twi_writeTo()
  for( byte addr = from_addr; addr <= to_addr; addr++ ) {
    rc = twi_writeTo(addr, &data, 0, 1, 0);
```

```

    callback( addr, rc );
}
}

// Called when address is found in scanI2CBus()
// Feel free to change this as needed
// (like adding I2C comm code to figure out what kind of I2C device is there)
void scanFunc( byte addr, byte result ) {
    Serial.print("addr: ");
    Serial.print(addr,DEC);
    Serial.print( (result==0) ? " found!":"    ");
    Serial.print( (addr%4) ? "\t":"\n");
}

byte start_address = 8;    // lower addresses are reserved to prevent conflicts with other protocols
byte end_address = 119;    // higher addresses unlock other modes, like 10-bit addressing

// standard Arduino setup()
void setup()
{
    Wire.begin();

    Serial.begin(9600);        // Changed from 19200 to 9600 which seems to be default for
    // Arduino serial monitor
    Serial.println("\nI2CScanner ready!");

    Serial.print("starting scanning of I2C bus from ");
    Serial.print(start_address,DEC);
    Serial.print(" to ");
    Serial.print(end_address,DEC);
    Serial.println("...");

    // start the scan, will call "scanFunc()" on result from each address
    scanI2CBus( start_address, end_address, scanFunc );

    Serial.println("\ndone");

    // Set pin mode so the loop code works ( Not required for the functionality)
    pinMode(13, OUTPUT);
}

// standard Arduino loop()
void loop()
{
    // Nothing to do here, so we'll just blink the built-in LED
    digitalWrite(13,HIGH);
    delay(300);
    digitalWrite(13,LOW);
    delay(300);
}

```