

LCD displej s meračom vzdialenosti

```
/*
 * This Arduino UNO R4 code was developed by newbiely.com
 *
 * This Arduino UNO R4 code is made available for public use without any restriction
 *
 * For comprehensive instructions and wiring diagrams, please visit:
 * https://newbiely.com/tutorials/arduino-uno-r4/arduino-uno-r4-ultrasonic-sensor-lcd
 */

#include <LiquidCrystal_I2C.h>

LiquidCrystal_I2C lcd(0x27, 16, 2); // I2C address 0x27 (from DIYables LCD), 16 column and 2 rows

#define TRIG_PIN 2 // The Arduino UNO R4 pin connected to the ultrasonic sensor's TRIG pin
#define ECHO_PIN 3 // The Arduino UNO R4 pin connected to the ultrasonic sensor's ECHO pin

float duration_us, distance_cm;

void setup() {
  lcd.init();           // initialize the lcd
  lcd.backlight();      // open the backlight
  pinMode(TRIG_PIN, OUTPUT); // config trigger pin to output mode
  pinMode(ECHO_PIN, INPUT);  // config echo pin to input mode
}

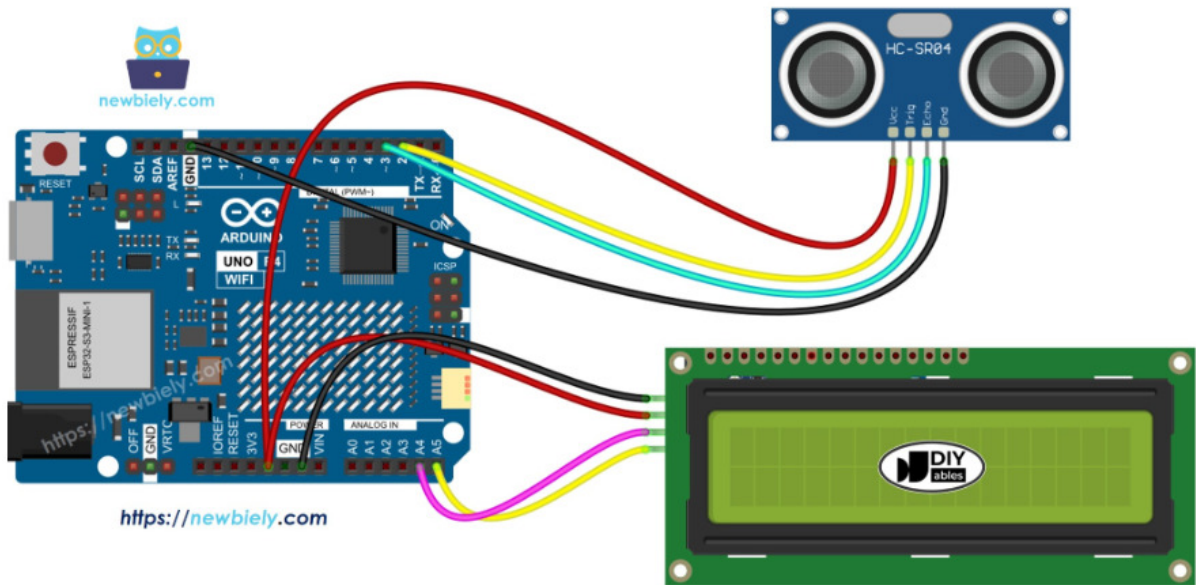
void loop() {
  // generate 10-microsecond pulse to TRIG pin
  digitalWrite(TRIG_PIN, HIGH);
  delayMicroseconds(10);
  digitalWrite(TRIG_PIN, LOW);

  // measure duration of pulse from ECHO pin
  duration_us = pulseIn(ECHO_PIN, HIGH);

  // calculate the distance
  distance_cm = 0.017 * duration_us;

  lcd.clear();
  lcd.setCursor(0, 0); // start to print at the first row
  lcd.print("Distance: ");
  lcd.print(distance_cm);

  delay(500);
}
```



<https://newbiely.com>