#include <LiquidCrystal.h>

#define trigPin 13

#define echoPin 8

// initialize the library with the numbers of the interface pins

LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

int counter = 0;

int currentState = 0;

int previousState = 0;

void setup() {

pinMode(trigPin, OUTPUT);

pinMode(echoPin, INPUT);

lcd.begin(16, 2);

lcd.setCursor(4, 0);

lcd.print("counter");

}

void loop() {

long duration, distance;

digitalWrite(trigPin, LOW);

delayMicroseconds(100); - Can be changed

digitalWrite(trigPin, HIGH);

delayMicroseconds(2000); -Can be changed

digitalWrite(trigPin, LOW);

duration = pulseIn(echoPin, HIGH);

distance = (duration/2) / 29.1;

if (distance <= 3.5){ - Can be changed

currentState = 1;

}

else {

currentState = 0;

}

delay(1000); - can be changed

if(currentState != previousState){

if(currentState == 1){

counter = counter + 1;

lcd.setCursor(4,1);

lcd.print(counter);

}

}

}