LAMPIRAN

Analisa Program

#include <NewPing.h>

#define TRIGGER_PIN A2
// Arduino pin tied to trigger pin on the ultrasonic sensor.
#define ECHO_PIN A1 // Arduino pin tied to echo pin on the ultrasonic sensor.
#define MAX_DISTANCE 200 // Maximum distance we want to ping for (in centimeters). Maximum sensor distance is rated at 400-500cm.

NewPing sonar(TRIGGER_PIN, ECHO_PIN, MAX_DISTANCE); // NewPing setup of pins and maximum distance.
unsigned int hasil;
int rx=1;
int tx=0;
void setup() {
    Serial.begin(9600); // Open serial monitor at 115200 baud to see ping results.
    pinMode(8, OUTPUT);
    pinMode(rx, INPUT);
    pinMode(tx, OUTPUT);
}

void loop() {
    unsigned int uS = sonar.ping(); // Send ping, get ping time in microseconds (uS).
hasil = uS / US_ROUNDTRIP_CM; // Convert ping time to distance in cm and print result (0 = outside set distance range)
Serial.println(hasil);

delay(100);
if (hasil>0 && hasil<20)
{
    digitalWrite(8, HIGH); // turn the LED on (HIGH is the voltage level)
    // wait for a second
}
else
{
    digitalWrite(8, LOW); // turn the LED off by making the voltage LOW
    // wait for a second
}