#include <Servo.h> //IMPOTENT POINT ADD servo.h LIBRARYY

#define trigPin 3

#define echoPin 2

Servo servo;

int sound = 250;

void setup() {

Serial.begin (9600);

pinMode(trigPin, OUTPUT);

pinMode(echoPin, INPUT);

servo.attach(4); // conect sevro pin 6

}

void loop() {

long duration, distance;

digitalWrite(trigPin, LOW);

delayMicroseconds(2);

digitalWrite(trigPin, HIGH);

delayMicroseconds(10);

digitalWrite(trigPin, LOW);

duration = pulseIn(echoPin, HIGH);

distance = (duration/2) / 29.1;

if (distance < 10) {

Serial.println("the distance is less than 5");

servo.write(90);

}

else {

servo.write(0);

}

if (distance > 40 || distance <= 0){

Serial.println("The distance is more than 60");

}

else {

Serial.print(distance);

Serial.println(" cm");

}

delay(500);

}

**CIRCUIT DIAGRAM**

