//copy and paste this code on your arduino ide, if you want to change any parameters you can change as per your requirements.

#include <Servo.h>

#define trigPin 3 //digital pin 3 of uno

#define echoPin 2 //digital pin 2 of uno

Servo servo;

int sound = 250;

void setup() {

Serial.begin (9600);

pinMode(trigPin, OUTPUT);

pinMode(echoPin, INPUT);

servo.attach(4); // Digital PIN 4 of uno

servo.write(0);

}

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);

delay(2000);

servo.write(0);

}

if (distance > 60 || distance <= 0){

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

}

else {

Serial.print(distance);

Serial.println(" cm");

}

delay(500);

}