#define echoPin 6

#define trigPin 7

#define buzzerPin 8

int maximumRange = 50;

int minimumRange = 0;

void setup() {

pinMode(trigPin, OUTPUT);

pinMode(echoPin, INPUT);

pinMode(buzzerPin, OUTPUT);

}

void loop() {

int olcum = mesafe(maximumRange, minimumRange);

melodi(olcum\*10);

}

int mesafe(int maxrange, int minrange)

{

long duration, distance;

digitalWrite(trigPin,LOW);

delayMicroseconds(2);

digitalWrite(trigPin, HIGH);

delayMicroseconds(10);

digitalWrite(trigPin, LOW);

duration = pulseIn(echoPin, HIGH);

distance = duration / 58.2;

delay(50);

if(distance >= maxrange || distance <= minrange)

return 0;

return distance;

}

int melodi(int dly)

{

tone(buzzerPin, 440);

delay(dly);

noTone(buzzerPin);

delay(dly);

}