const int trigpin=7;

const int echopin =4;

const int buzzer =2 ;

const int ledpin=12;

long duration;

int distance ;

int safetydistance ;

void setup() {

pinMode(trigpin,OUTPUT);

pinMode(echopin,INPUT);

pinMode(buzzer,OUTPUT);

pinMode(ledpin,OUTPUT);

Serial.begin(9600);

// put your setup code here, to run once:

}

void loop() {

digitalWrite(trigpin,LOW);

delayMicroseconds(2);

digitalWrite(trigpin,HIGH);

delayMicroseconds(10);

digitalWrite(trigpin,LOW);

duration=pulseIn(echopin,HIGH);

distance=duration\*0.034/2 ;

safetydistance = distance ;

if (safetydistance<=5){

digitalWrite(buzzer,HIGH);

digitalWrite(ledpin,HIGH);

}

else{

digitalWrite(buzzer,LOW);

digitalWrite(ledpin,LOW);

}

Serial.print("Distance: ");

Serial.println(distance);

// put your main code here, to run repeatedly:

}