// C++ code

//

const int buzzer = 3; //buzzer to arduino pin 3

int trig=2; //ultrsonic sensor

int led=7;

int echo=4;

void setup()

{

pinMode(8,OUTPUT); // led setup

pinMode(12,OUTPUT);

pinMode(13,OUTPUT);

Serial.begin(9600);

pinMode(buzzer, OUTPUT); // Set buzzer - pin 3 as an output

pinMode (5,INPUT); Serial.begin(9600); //set pir sensor as output

Serial.begin(9600);

pinMode(trig,OUTPUT);

pinMode(echo,INPUT);

pinMode(led,OUTPUT);

}

void loop()

{

digitalWrite(8,HIGH);

Serial.println("8 LED\_ON");

digitalWrite(12,HIGH);

Serial.println("12 LED\_ON");

digitalWrite(13,HIGH);

Serial.println("13 LED\_ON");

delay(2000);

digitalWrite(8,LOW);

Serial.println("8 LED\_OFF");

digitalWrite(12,LOW);

Serial.println("12 LED\_OFF");

digitalWrite(13,LOW);

Serial.println("13 LED\_OFF");

delay(2000);

tone(buzzer, 1000); // Send 1KHz sound signal...

delay(1000); // ...for 1 sec

noTone(buzzer); // Stop sound...

delay(1000); // ...for 1sec

int p =digitalRead(2); Serial.print ("Motion: "); Serial.println(p);

digitalWrite(trig,LOW);

digitalWrite(trig,HIGH);

delayMicroseconds(10);

digitalWrite(trig,LOW);

float dur=pulseIn(echo,HIGH);

float dist=(dur\*0.0343)/2;

Serial.print("distance in cm");

Serial.println(dist);

if(dist>=100)

{

digitalWrite(led,HIGH);

}

else

{

digitalWrite(led,LOW);

}

}