// C++ code

//

const int buzzer = 9; //buzzer to arduino pin 9

int trig=6; //ultrsonic sensor

int led=13;

int echo=4;

void setup()

{

pinMode(5,OUTPUT); // led setup

pinMode(10,OUTPUT);

pinMode(7,OUTPUT);

Serial.begin(9600);

pinMode(buzzer, OUTPUT); // Set buzzer - pin 9 as an output

pinMode (2,INPUT); Serial.begin(9600); //set pir sensor as output

Serial.begin(9600);

pinMode(trig,OUTPUT);

pinMode(echo,INPUT);

pinMode(led,OUTPUT);

}

void loop()

{

digitalWrite(5,HIGH);

Serial.println("5 LED\_ON");

digitalWrite(10,HIGH);

Serial.println("10 LED\_ON");

digitalWrite(7,HIGH);

Serial.println("7 LED\_ON");

delay(2000);

digitalWrite(5,LOW);

Serial.println("5 LED\_OFF");

digitalWrite(10,LOW);

Serial.println("10 LED\_OFF");

digitalWrite(7,LOW);

Serial.println("7 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);

}

}