int trigpin = 13;

int echopin = 12;

#include<Servo.h>

Servo myservo;

void setup()

{

Serial.begin(9600);

myservo.attach(7);

pinMode(trigpin, OUTPUT);

pinMode(echopin, INPUT);

myservo.write(0);

}

void loop()

{

digitalWrite(trigpin, HIGH);

delay(1000);

digitalWrite(trigpin, LOW);

float duration = pulseIn(echopin, HIGH);

float distance = duration\*0.0343/2;

Serial.print("The distance is : ");

Serial.println(distance);

if(distance>80)

{

myservo.write(90);

Serial.print("the garage is opened");

delay(5000);

myservo.write(0);

Serial.print("the door is closed");

}

else

{

myservo.write(0);

}

}

