

Automatic garage door opening system

```
int trigpin=11;
int echopin=10;
#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.println("The garage door is opened");
    delay(5000);
    myservo.write(0);
    Serial.println("The garage door is closed");
  }
  else {
    myservo.write(0);
  }
}
```