



```
int trigger_pin= 2;

int echo_pin= 3;

int buzzer_pin= 10;

int time;

int distance;

void setup()

{

    Serial.begin(9600);

    pinMode(trigger_pin,OUTPUT);

    pinMode(echo_pin,INPUT);

    pinMode(buzzer_pin,OUTPUT);

}

void loop()

{

    digitalWrite(trigger_pin,HIGH);
```

```
delayMicroseconds(10);

digitalWrite(trigger_pin,LOW);

time=pulseIn(echo_pin,HIGH);

distance=(time*0.034)/2;


if(distance<=10)
{
    Serial.println("Door open");
    Serial.print("Distance=");
    Serial.println(distance);
    digitalWrite(buzzer_pin,HIGH);
    delay(500);
}
else{
    Serial.println("Door closed");
    Serial.print("Distance=");
    Serial.println(distance);
    digitalWrite(buzzer_pin,LOW);
    delay(500);
}
}
```