

```

int trigger pin =2;
int echo pin =3;
int buzzer pin =10;
int time;
int distance;
void setup()
{
  serial.begin (9600);
  pinMode (triggerpin,OUTPUT);
  pinMode (echopin, INPUT);
  pinMode (buzzerpin, OUTPUT);
}
void loop()
{
  digitalWrite (triggerpin,HIGH);
  delayMicroseconds (10);
  digitalWrite (triggerpin,LOW);
  time = pulseIn (echopin, HIGH);
  distance = (time*0.034) / 2;

  if (distance <= 10)
  {
    serial.println (" Door Open ");
    serial.print (" Distance= ");

```

```
serial.println (distance);  
digitalWrite (buzzerpin, HIGH);  
delay (500);  
}  
else {  
serial.println ("Door closed ");  
serial.print ("Distance= ");  
serial.println (distance);  
digitalWrite (buzzerpin, LOW);  
delay (500);  
}  
}
```