

ASSIGNMENT 4

Date	30-oct-2022
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Maximum mark	2 marks

Question:

Write code and connections in wokwi for the ultrasonic sensor.

Code:

```
int t=2

; int e=3;

void setup()

{

Serial.begin(9600);

pinMode(t,OUTPUT);

pinMode(e,INPUT)

; pinMode(12,OUTPUT );

}

void loop()

{

//ultrasonic sensor digitalWrite(t,LOW);

digitalWrite(t,HIGH);

delayMicroseconds(10);

digitalWrite(t,LOW);

float dur=pulseIn(e,HIGH);

float dis=(dur*0.0343)/2;

Serial.print("Distance is: ");
```

```
Serial.println(dis);

//LED ON

if(dis>=100)

{

digitalWrite(8,HIGH );

digitalWrite(7,HIGH );

}

//Buzzer For ultrasonic Sensor if(dis>=100)

{

for(int i=0; i<=30000; i=i+10)

{

tone(12,i);

delay(1000);

noTone(12);

delay(1000);

}

}
```

