

ASSIGNMENT 4

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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);  
}  
}
```

