

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
```

```
    );
```

```
    }
```

```
    }
```

