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ASSIGNMENT - 1

```
nt 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);
}
}
 //Temperate Sensor
double a= analogRead(A0);
double t=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value: ");
Serial.println(t);
delay(1000);
//LED ON
if(t>=100)
{
 digitalWrite(8,HIGH);
 digitalWrite(7,HIGH);
}
//Buzzer for Temperature Sensor
```

```
if(t>=100)
{
for(int i=0; i<=30000; i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}
//LED OFF
if(t<100)
{
 digitalWrite(8,LOW);
 digitalWrite(7,LOW);
}
```