Assignment -1

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```
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);
  }
    //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);
```

}