ASSIGNMENT 4

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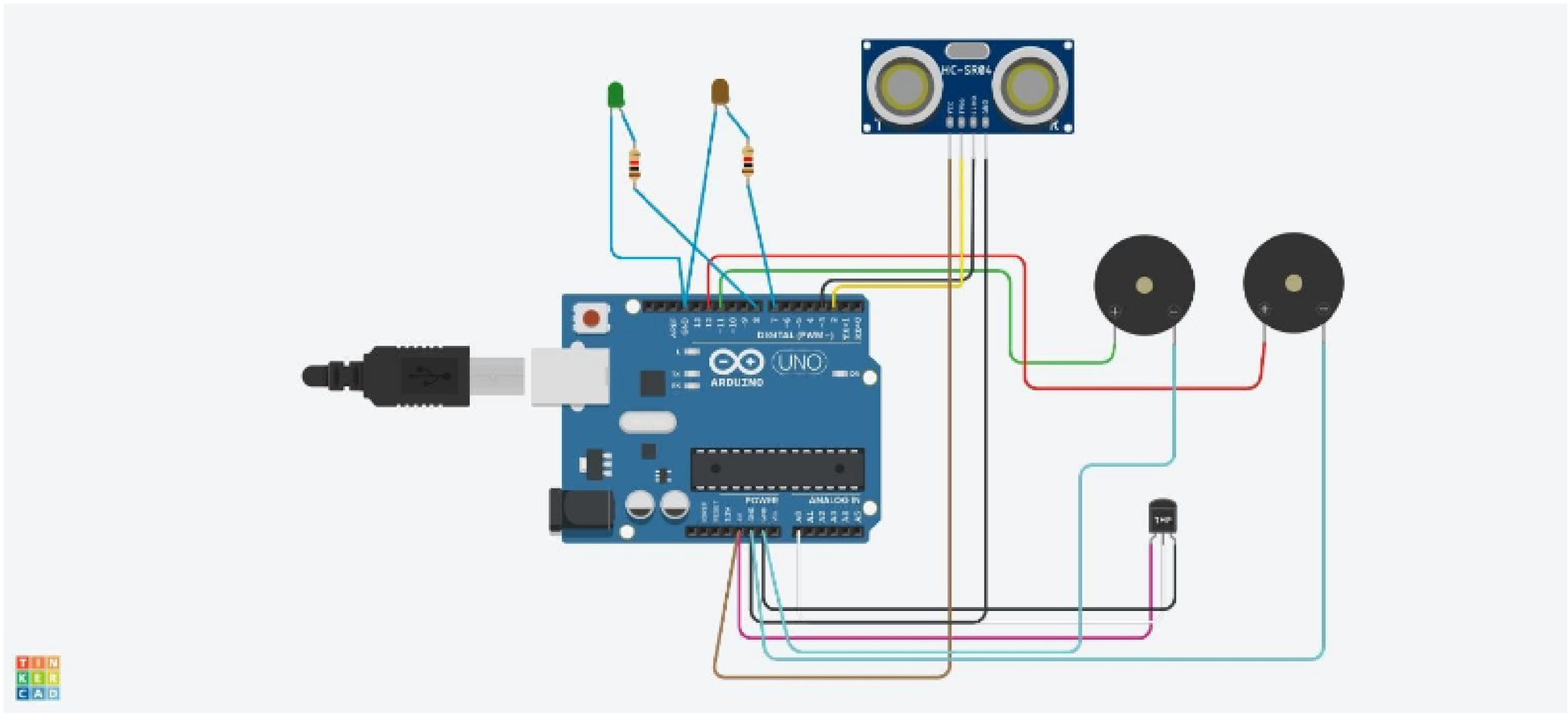
CODE:

```
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
);
}
}
```


HC-SR04
UNO
ARDUINO
DIGITAL (PWM~)
POWER
ANALOG IN
THP