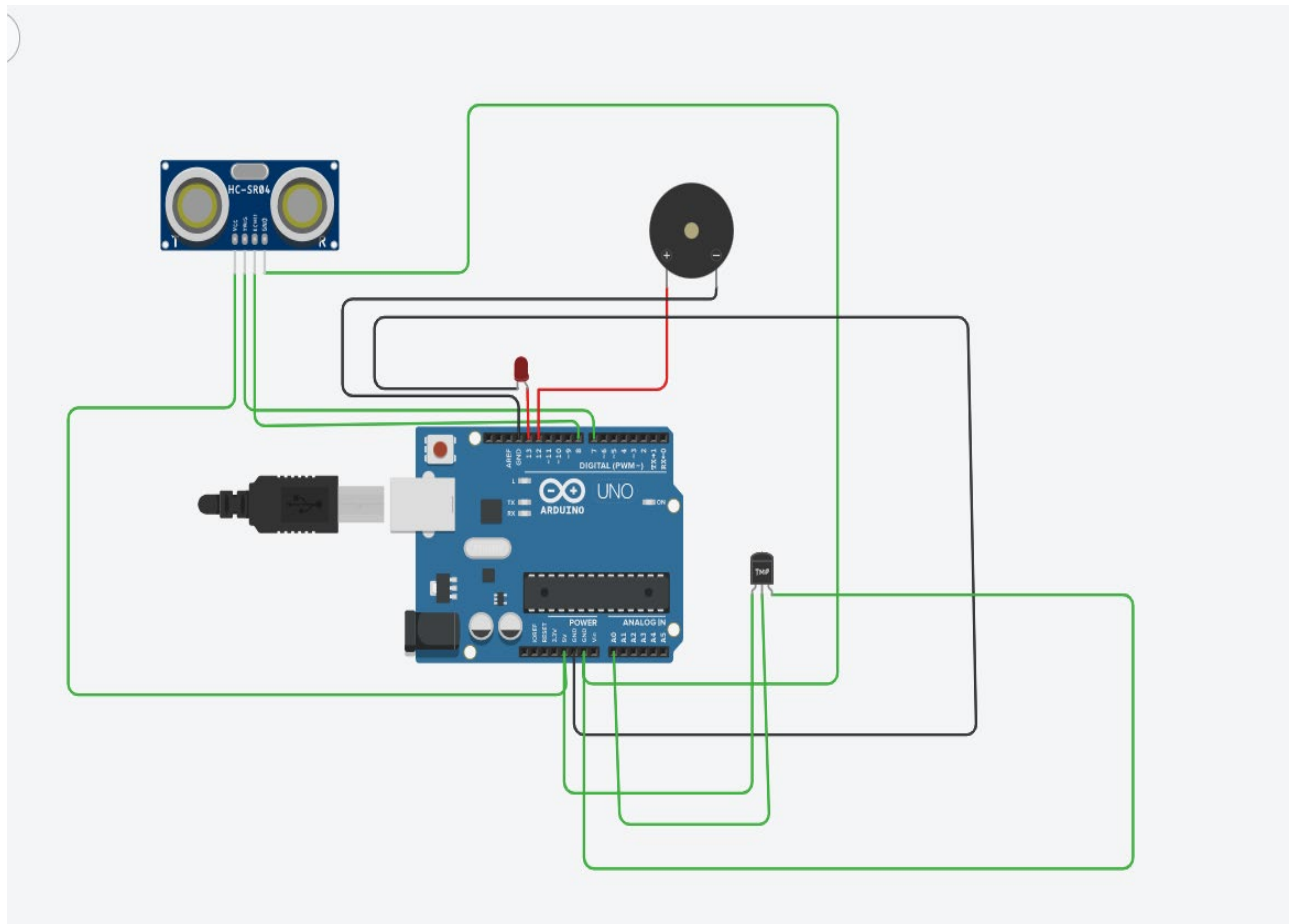


CIRCUIT



CODE

```
int trigger = 7;  
int echo = 8;  
int led = 13;  
int temp = A0;
```

```
int value;

int buzzer=12;

void setup()
{
    Serial.begin(9600);
    pinMode(trigger,OUTPUT);
    pinMode(echo,INPUT);
    pinMode(led,OUTPUT);
    pinMode(buzzer,OUTPUT);
}

void loop()
{
    value = analogRead(temp);
    float mv = ( value/1024.0)*5000;
    float cl = mv/10;
    float fh = (cl*9)/5 + 32;
    Serial.print("temperature = ");
    Serial.print(cl);
```

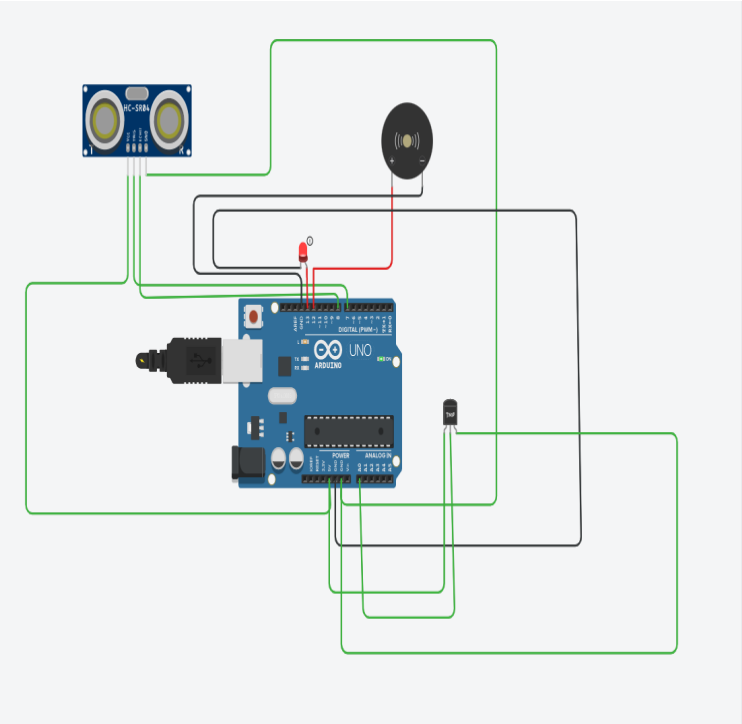
```
Serial.print("*C");  
Serial.println();  
delay(1000);  
digitalWrite(trigger,LOW);  
digitalWrite(trigger,HIGH);  
delayMicroseconds(10);  
digitalWrite(trigger,LOW);  
float duration = pulseIn(echo,HIGH);  
float distance = (duration*0.0343)/2;  
Serial.print("Distance=" );  
Serial.println(distance);  
if (distance>=100)  
{  
    digitalWrite(led,HIGH);  
    digitalWrite(buzzer,HIGH);  
}  
else  
{  
    digitalWrite(led,LOW);
```

```
digitalWrite(buzzer,LOW);
```

```
}
```

```
}
```

OUTPUT



```
1 int trigger = 7;
2 int echo = 8;
3 int led = 13;
4 int temp = A0;
5 int value;
6 int buzzer=12;
7 void setup()
8 {
9   Serial.begin(9600);
10  pinMode(trigger,OUTPUT);
11  pinMode(echo,INPUT);
12  pinMode(led,OUTPUT);
13  pinMode(buzzer,OUTPUT);
14 }
15
16 void loop()
17 {
18   value = analogRead(temp);
19   float mv = ( value/1024.0)*5000;
20   float cl = mv/10;
21   float fh = (cl*9)/5 + 32;
22   Serial.print("temperature = ");
23   Serial.print(cl);
24 }
```

Serial Monitor

Distance=113.0/
temperature = 74.71°C
Distance=113.04
temperature = 74.71°C
Distance=113.07
temperature = 74.71°C
Distance=112.88
temperature = 74.71°C

Send Clear