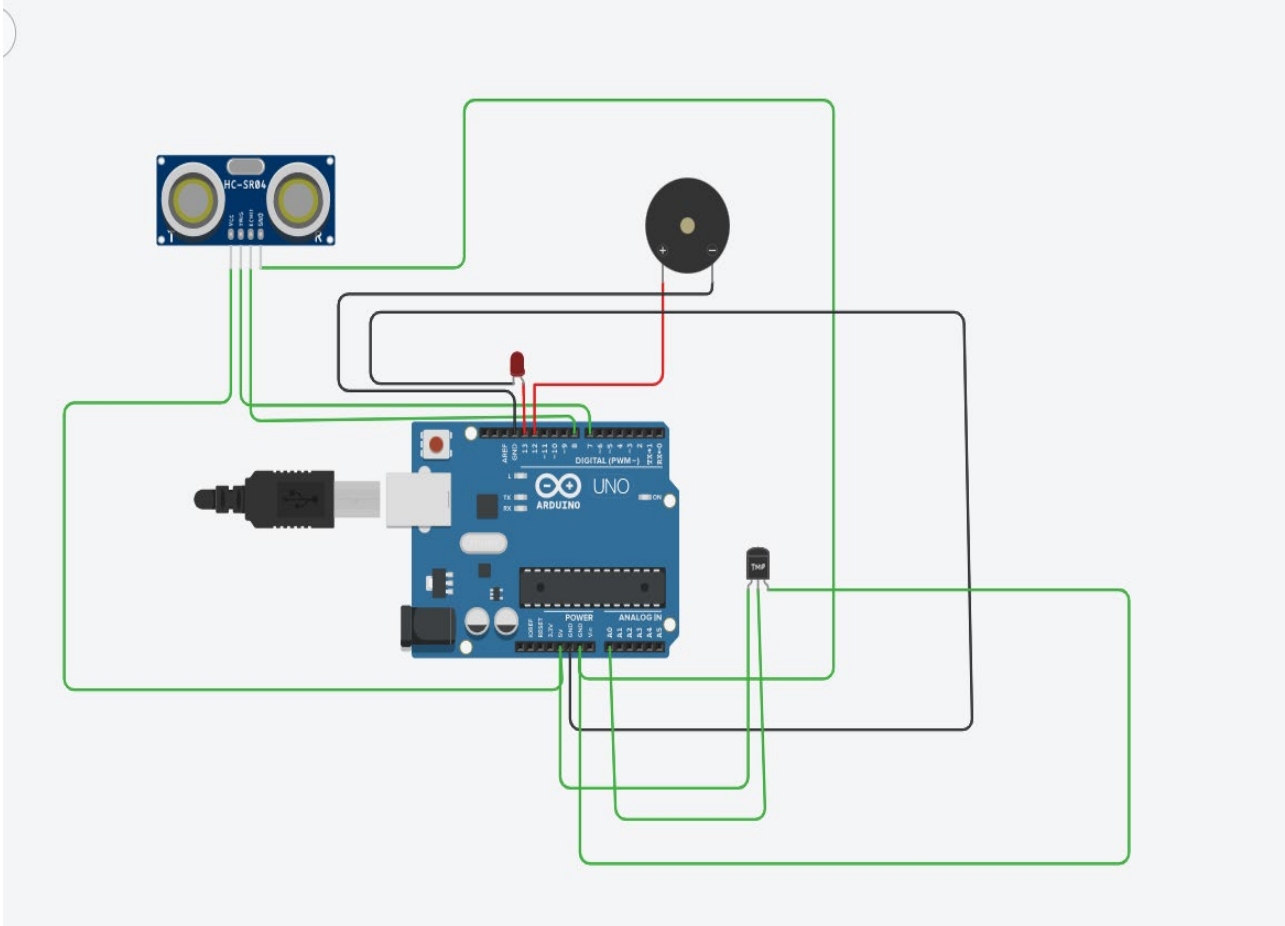
CIRCUIT



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