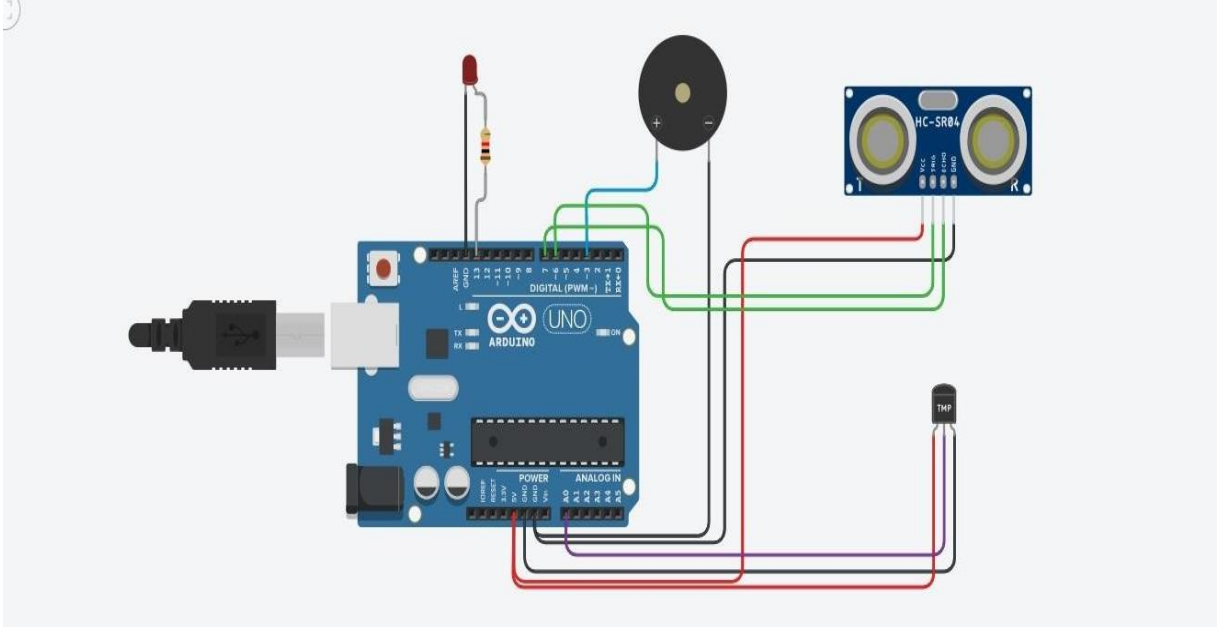
CIRCUIT:



SOURCE CODE:

const int pingPin = 6;

// TriggerPin of Ultrasonic Sensor

```
const int echoPin = 7;
// Echo Pin ofUltrasonic Sensor
double tempPin=A0;


void setup()
{
Serial.begin(9600); // Starting SerialTerminal
pinMode(LED_BUILTIN, OUTPUT);
pinMode(3,OUTPUT);
}
```

```
void loop()

{

long distcm,duration;
double temp;

temp=analogRead(tempPin);

temp=(((temp/1024)*5)-0.5)*100;
//converting analog reading to celcius
//Turn on the buzzer when temparatureincreases above 70 celcius
if(temp>70)

{

digitalWrite(3, HIGH);


}

else

{
 digitalWrite(3,LOW);



}


delay(1000); pinMode(pingPin, OUTPUT);

digitalWrite(pingPin, LOW);

delayMicroseconds(2);

digitalWrite(pingPin, HIGH);

delayMicroseconds(10);

digitalWrite(pingPin, LOW);

pinMode(echoPin, INPUT);

duration = pulseIn(echoPin, HIGH);
distcm = duration*0.0343/2;

// Turns the LED ON when the water leveldrops below 100cm.
if(distcm<100)
```

```
{

digitalWrite(LED_BUILTIN, HIGH);

}


else

{
digitalWrite(LED_BUILTIN, LOW);


}


}
```