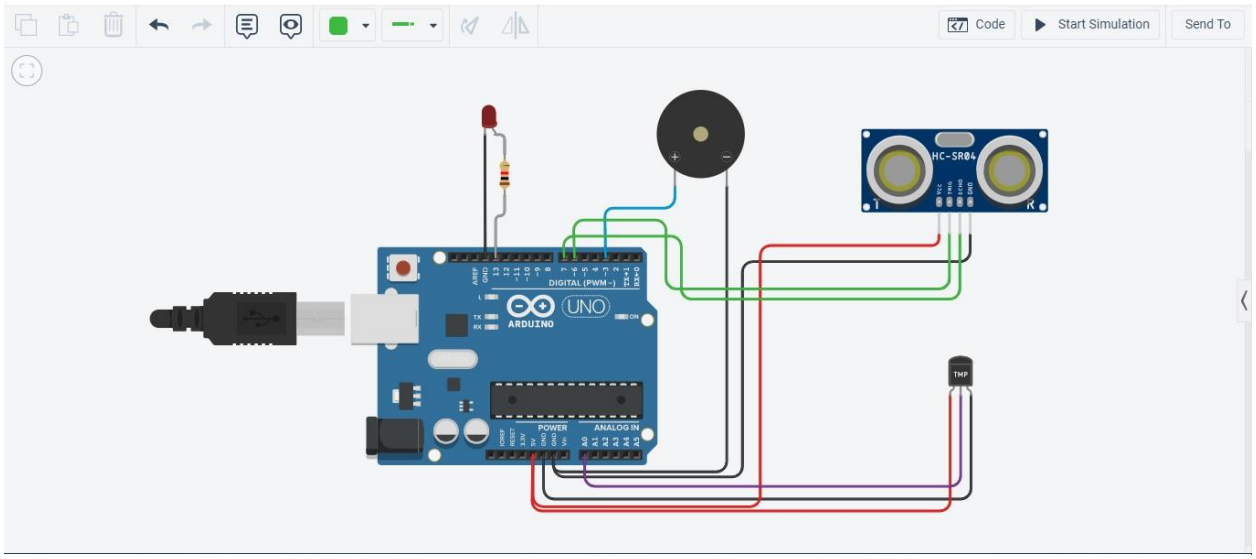
CIRCUIT DIAGRAM:



SOURCE CODE:

```
const int pingPin = 6; // Trigger
Pin of Ultrasonic Sensor
const int echoPin = 7; // Echo Pin of
Ultrasonic Sensor
double tempPin=A0;


void setup()
{
 Serial.begin(9600); // Starting Serial
Terminal
 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 temparature
increases 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 level
drops below 100cm.
 if(distcm<100)
 {
       digitalWrite(LED_BUILTIN, HIGH);
 }
```

```
 else
 {
       digitalWrite(LED_BUILTIN, LOW);
 }
}
```