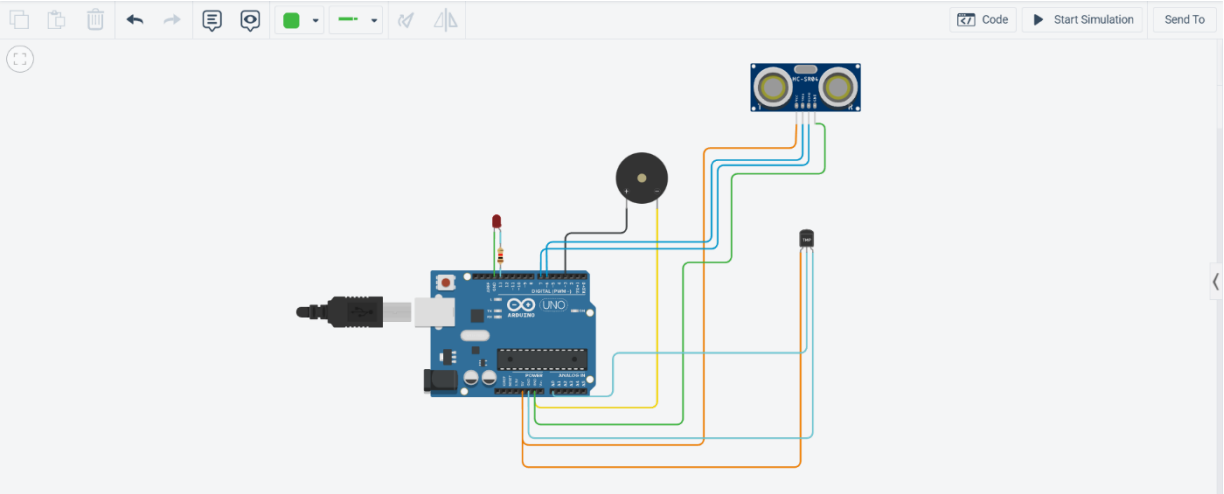
CIRCUIT DIAGRAM:



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 60 celcius
if(temp>60)
```

```
{
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);
distanceInCm = duration*0.0343/2;
//Turns the LED ON when the water level drops below 120cm.
if(distanceInCm<130)
{
digitalWrite(LED_BUILTIN, HIGH);
}
else
{
digitalWrite(LED_BUILTIN, LOW);
}
}
```