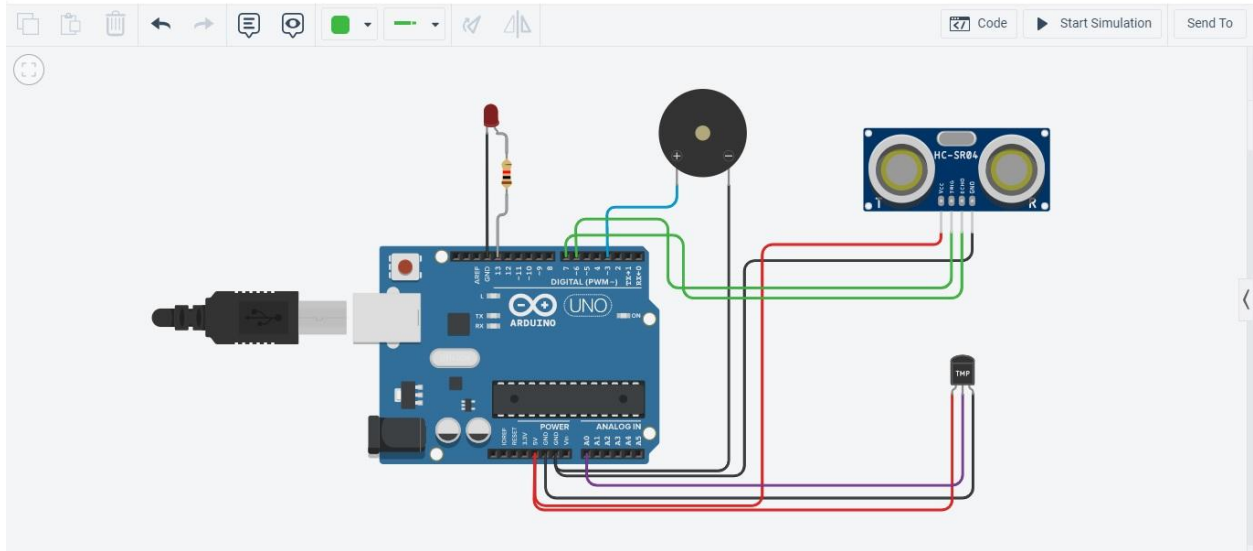


TEAM ID: PNT2022TMID04198  
TEAM LEADER: Nithinkumar G  
TEAM MEMBER 1: Surya Prakash R  
TEAM MEMBER 2: Anupriya V  
TEAM MEMBER 3: Snega M  
MENTOR: Ranjani J

## 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 temperature
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);
}
}
```