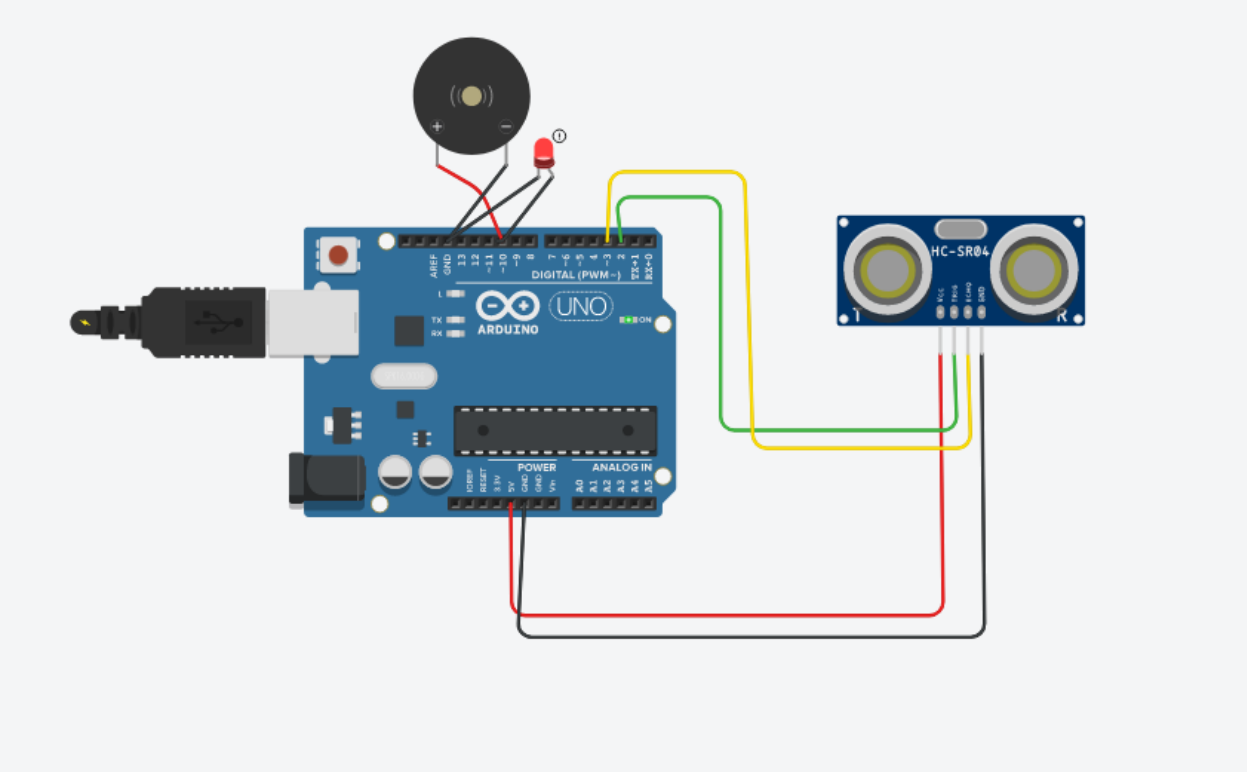
Real-Time River Water Quality Monitoring And Control System

ASSIGNMENT-1

CIRCUIT:



CODE:

```
int trigger_pin = 2;
int echo_pin = 3;
int buzzer_pin = 10;
int time;
int distance;
void setup()
{
```

```
Serial.begin (9600);
pinMode (trigger_pin, OUTPUT);
pinMode (echo_pin, INPUT);
pinMode (buzzer_pin, OUTPUT);
}
void loop()
{
digitalWrite (trigger_pin, HIGH);
delayMicroseconds (10);
digitalWrite (trigger_pin, LOW);
time = pulseIn (echo_pin, HIGH);
distance = (time * 0.034) / 2;

if (distance <= 10)
{
Serial.println (" Door Open ");
Serial.print (" Distance= ");
Serial.println (distance);
digitalWrite (buzzer_pin, HIGH);
delay (500);
}
else {
Serial.println (" Door closed ");
Serial.print (" Distance= ");
```

```
Serial.println (distance);
digitalWrite (buzzer_pin, LOW);
delay (500);
}
}
```

LINK:

https://www.tinkercad.com/things/1LWNS3lWYmE-ingenious-gaaris-fulffy/editel?tenant=circuits