Assignment – 1

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Project Name	Real-Time River Water Quality Monitoring and Control System
Marks	2marks

Circuit Diagram
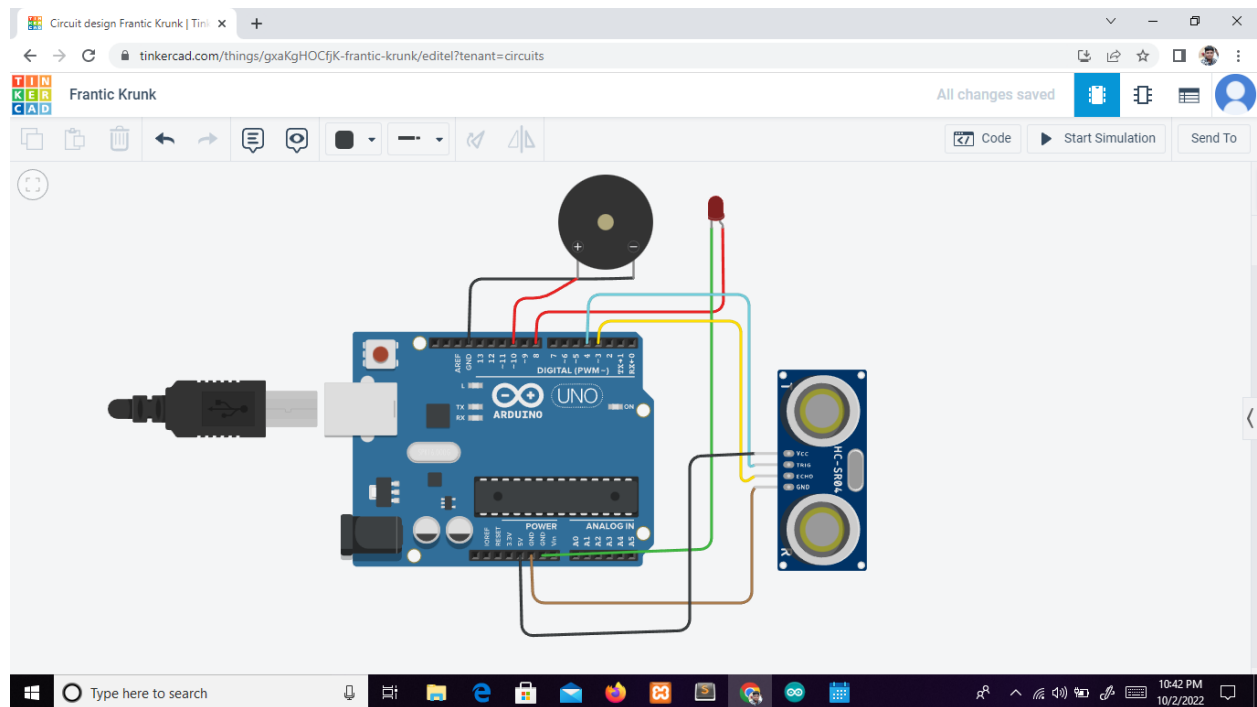
Program Coding

```
int trigpin=4;
int echopin=3;
int buzzerpin=10;
int time;
int distance;

void setup()
{
 pinMode(8,OUTPUT);
 pinMode(3,INPUT);
 pinMode(4,OUTPUT);
 pinMode(10,OUTPUT);
 Serial.begin(9600);
}

void loop()
{
 digitalWrite(trigpin, HIGH);
 delayMicroseconds(1000);
 digitalWrite(trigpin, LOW);
 delayMicroseconds(1000);
 time=pulseIn(echopin,HIGH);
 distance=(time*0.034)/2;
 if(distance<=10)
 {
  Serial.print("Distance= ");
  Serial.println(distance);
  digitalWrite(8,HIGH);
  delay(1000);
  digitalWrite(10,LOW);
  delay(1000);
 }
 else
  {
  Serial.print("Distance= ");
  Serial.println(distance);
```

```
    digitalWrite(8,LOW);
    delay(1000);
    digitalWrite(10,HIGH);
    delay(1000);
    }
}
```

OUTPUT