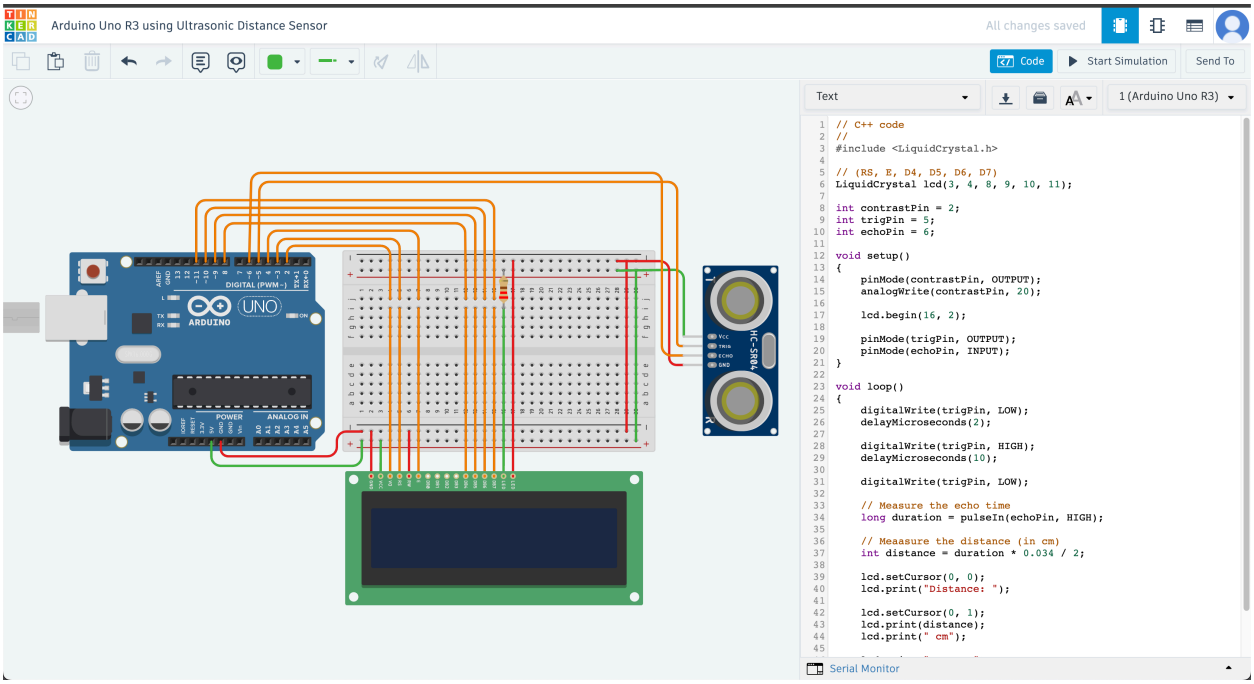
Arduino Uno R3 using Ultrasonic Distance Sensor

Image:



Code:

```
// C++ code
//
#include <LiquidCrystal.h>

// (RS, E, D4, D5, D6, D7)
LiquidCrystal lcd(3, 4, 8, 9, 10, 11);

int contrastPin = 2;
int trigPin = 5;
int echoPin = 6;

void setup()
{
	pinMode(contrastPin, OUTPUT);
	analogWrite(contrastPin, 20);

	lcd.begin(16, 2);

	pinMode(trigPin, OUTPUT);
	pinMode(echoPin, INPUT);
}

void loop()
{
	digitalWrite(trigPin, LOW);
```

```
        delayMicroseconds(2);

        digitalWrite(trigPin, HIGH);
        delayMicroseconds(10);

        digitalWrite(trigPin, LOW);

        // Measure the echo time
        long duration = pulseIn(echoPin, HIGH);

        // Meaasure the distance (in cm)
        int distance = duration * 0.034 / 2;

        lcd.setCursor(0, 0);
        lcd.print("Distance: ");

        lcd.setCursor(0, 1);
        lcd.print(distance);
        lcd.print(" cm");

        lcd.print("       ");

        delay(500);
}
```