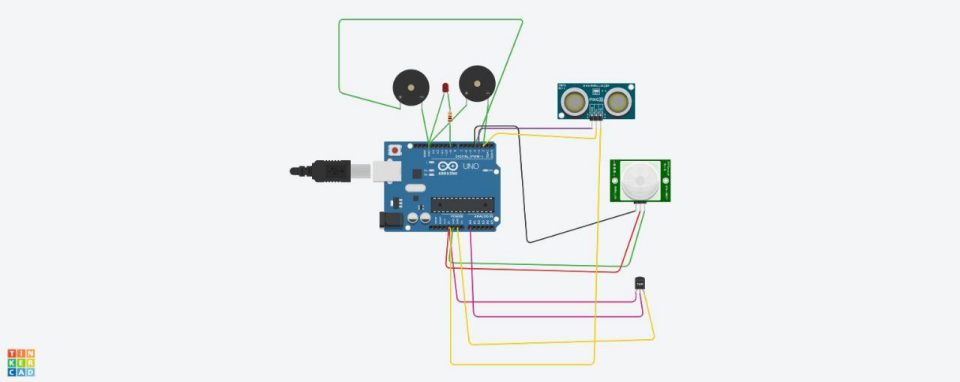

```
#include <LiquidCrystal.h> //LCD library


 #define echo 2
 #define trig 3
 float  duration; // time taken by the pulse to return back
 float  distance;
int sensor_Input;
 float temp;// oneway distance travelled by the pulse
 LiquidCrystal lcd(13, 12, 11, 10, 9, 8);//lcd(RS,EN,D4,D5,D6,D7)
 void setup() {
    pinMode(trig, OUTPUT);
  pinMode(echo, INPUT);
  Serial.begin(9600);
  lcd.begin(16, 2);
 }
 void loop() {
  time_Measurement();
  distance = duration * (0.0343) / 2;// calculate the oneway distance travelled by the pulse
  display_distance();
  measure_Temp();
 }
 void time_Measurement()
```

```
 { //function to measure the time taken by the pulse to return back
   digitalWrite(trig, LOW);
   delayMicroseconds(2);
   digitalWrite(trig, HIGH);
   delayMicroseconds(10);
   digitalWrite(trig, LOW);
   duration = pulseIn(echo, HIGH);
 }
void measure_Temp()
 {
   sensor_Input = analogRead(A0);
   temp = (float)sensor_Input / 1024;
   temp = temp * 5;
   temp = temp - 0.5;
   temp = temp * 100;
          Serial.print("Temp in C: ");
   Serial.print(temp);
   Serial.println();
 }
 void display_distance()
 {
   Serial.print("Distance in Cm: ");
   Serial.print(distance);
   Serial.println();
   delay(1000);
  }
```