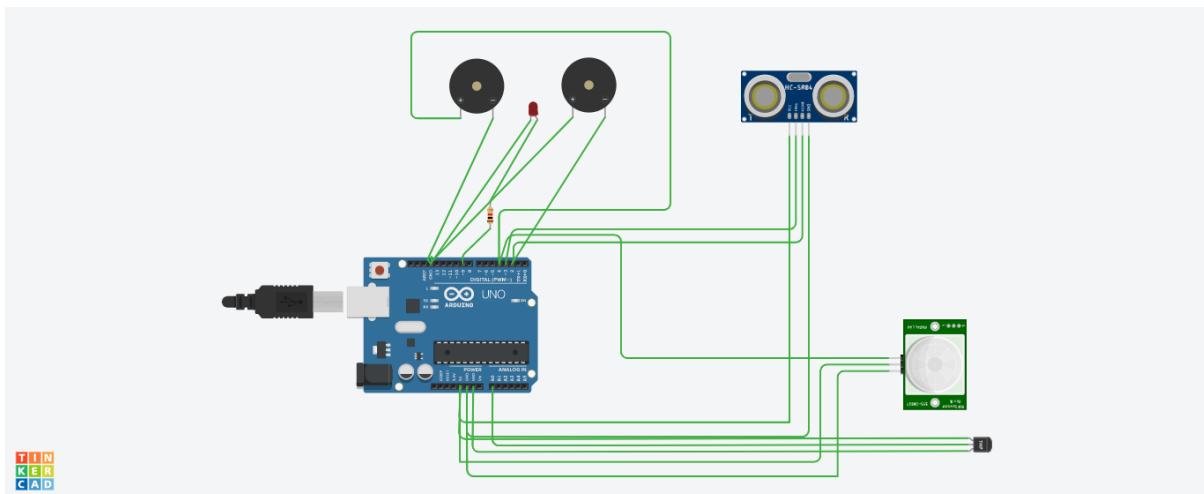


## CIRCUIT:



## CODE:

```
#include <LiquidCrystal.h>

#define echo 2
#define trig 3

float duration;
float distance;
int sensor_Input;
float temp;

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;

    display_distance();

    measure_Temp();

}

void time_Measurement()

{

    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);
}
```