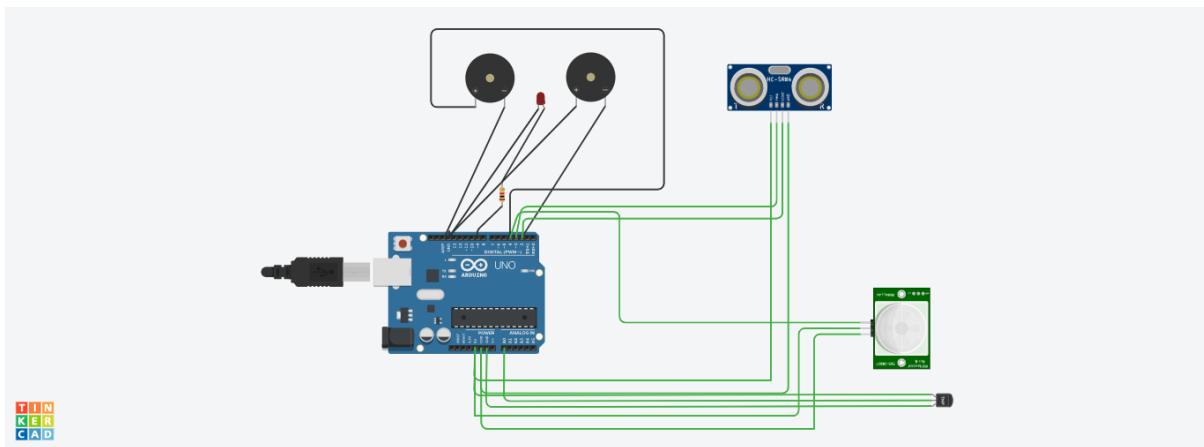


CIRCUIT:



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);
}
```