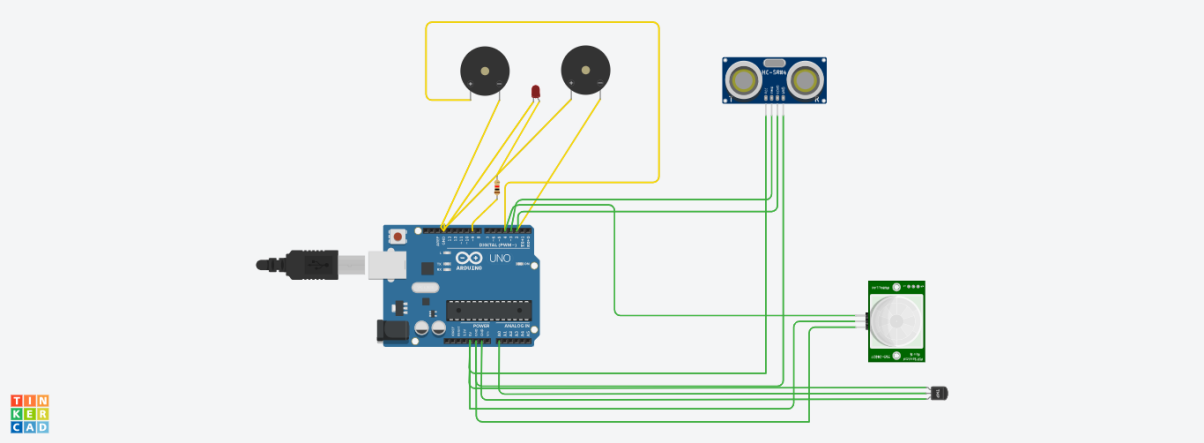
CIRCUIT:



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);
 }
```