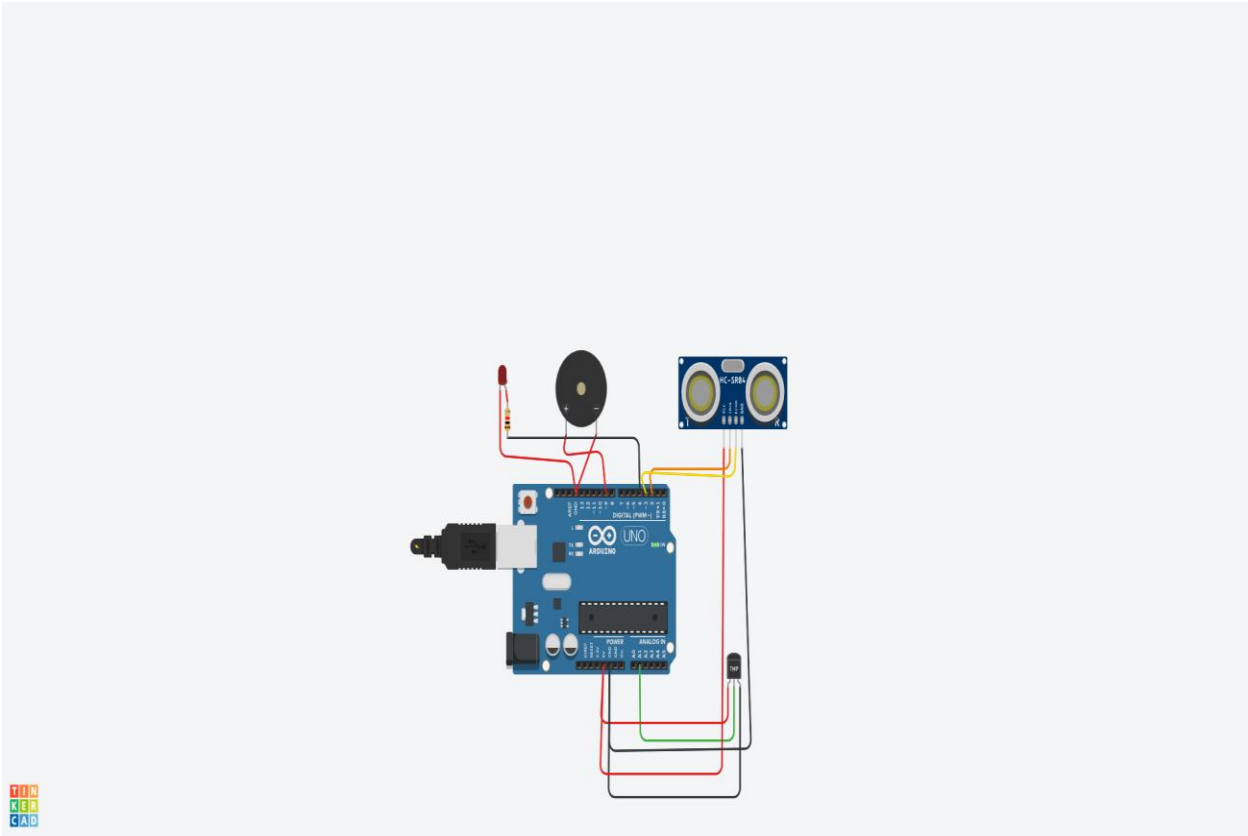


SMART HOME(2 SENSORS,LED,BUFFER)

CIRCUIT DIAGRAM:



CODE:

```
// C++ code
//
int trig =2;
int echo =3;
void setup()
{
  Serial.begin(9600);
```

```
pinMode(9,OUTPUT);  
pinMode(trig,OUTPUT);  
pinMode(echo,INPUT);  
}
```

```
void loop()  
{  
    double a=analogRead(A1);  
    Serial.print("Adc Value:");  
    Serial.println(a);  
    double v= a/1024;  
    double tvolt= v*5;  
    Serial.print("temp value voltage:");  
    Serial.println(tvolt);  
    double o = tvolt-0.5;  
    double t= o*100;  
    Serial.print ("Temperature is :");  
    Serial.println(t);  
    if (t>=50)  
    {  
        digitalWrite(9,HIGH);  
    }  
    else  
    {  
        digitalWrite(9,LOW);  
    }  
    digitalWrite(trig,LOW);
```

```
digitalWrite(trig,HIGH);  
delayMicroseconds(10);  
digitalWrite(trig,LOW);  
float dur = pulseIn(echo,HIGH);  
float dist = (dur*0.0343)/2;  
Serial.print("distance:");  
Serial.println(dist);  
if (dist>=100)  
{  
digitalWrite(4,HIGH);  
  
}  
else  
{  
digitalWrite(4,LOW);  
  
}  
  
}
```