Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single code and circuit

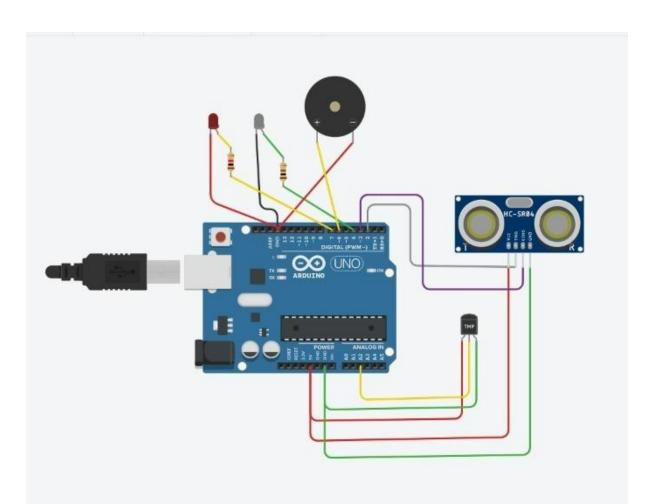
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| Name | Quantity | Component |
|--------|----------|----------------------------|
| U1 | 1 | Arduino Uno R3 |
| U2 | 1 | Temperature Sensor [TMP36] |
| DIST1 | 1 | Ultrasonic Distance Sensor |
| D1 | ì | White LED |
| R1 | 1 | 100 Ω Resistor |
| PIEZO1 | 1 | Piezo |
| D2 | 1 | Red LED |
| R2 | 1 | 1 kΩ Resistor |

CODE:

```
// C++ code
int trig = 2;
int echo = 3;
int led=4;
int buz=6;
int led1=7;
void setup()
{
 Serial.begin(9600);
 pinMode(trig,OUTPUT);
 pinMode(echo,INPUT);
 pinMode(led,OUTPUT);
 pinMode(led1,OUTPUT);
 pinMode(buz,OUTPUT);
}
void loop()
{
// temperature sensor
 double t = analogRead(A2);
 Serial.print("Analog data: ");
 Serial.println(t);
 double n=t/1024;
 double v=n*5;
 Serial.print("Voltage data: ");
 Serial.println(v);
```

```
double c=v-0.5;
double k=v*100;
Serial.print("Temperature value:");
Serial.println(k);
delay(1000);
//ultasonic sensor
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 in cm : ");
Serial.println(dist);
//led
if(dist>=100)
 digitalWrite(led,HIGH);
}
else
 digitalWrite(led,LOW);
}
//buzzer
digitalWrite(buz,LOW);
digitalWrite(led1,LOW);
delay(1000);
digitalWrite(buz,HIGH);
digitalWrite(led1,HIGH);
```

```
delay(1000);
}
```

TINKERCARD LINK:

https://www.tinkercad.com/things/8iPOOKSKdTr