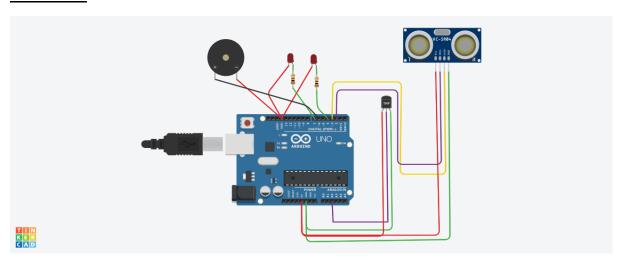
**NAME:** R.KEERTHANA **REG. NO.: 211419106131** 

ASSIGNMENT DATE	15 SEPTEMBER 2022
STUDENT NAME	R.KEERTHANA
STUDENT ROLL NUMBER	211419106131
MAXIMUM MARKS	2 MARKS

# **ASSIGNMENT-1**

## **SMART HOME USING TINKERCAD**

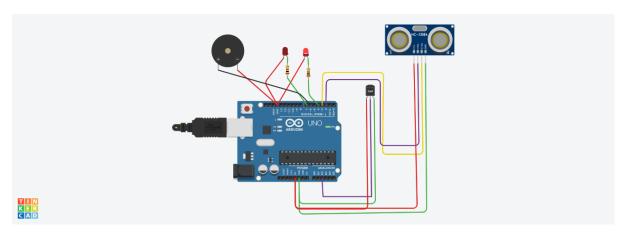
### **CIRCUIT:**

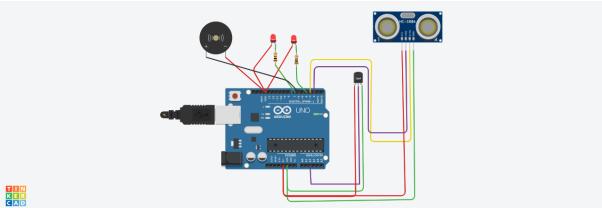


#### **SIMULATION:**

### **NAME:** R.KEERTHANA

#### REG. NO.: 211419106131





#### **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(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);
<u>digitalWrite(trig,HIGH);</u>
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);
}
```

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else
{
 digitalWrite(led,LOW);
}
//buzzer
digitalWrite(buz,LOW);
digitalWrite(led1,LOW);
delay(1000);
digitalWrite(buz,HIGH);
digitalWrite(led1,HIGH);
delay(1000);

}