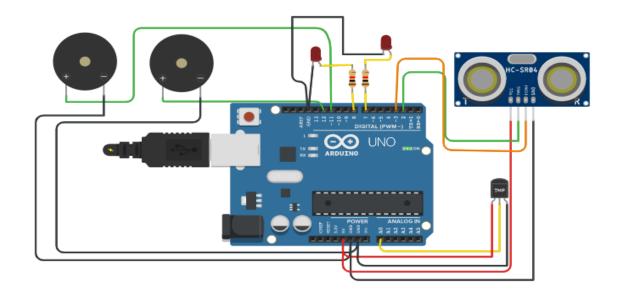
## ASSIGNMENT 1 SMART HOME IN TINKERCAD

Assignment Date	21-09-2022
Student Name	R.V. Raveena
Register Number	960219104080
Team ID	PNT2022TMID34030
Maximum Marks	2 Marks

## **Circuit Diagram:-**



## **SOURCE CODE:**

```
// C++ code
int trig=2;
int echo=3;
void setup()
 Serial.begin(9600);
 pinMode(trig,OUTPUT);
 pinMode(echo,INPUT);
 pinMode(12,OUTPUT);
void loop()
{
 //ultrasonic sensor
 digitalWrite(trig,LOW);
 digitalWrite(trig,HIGH);
 delayMicroseconds(10);
 digitalWrite(trig,LOW);
 float dur=pulseIn(echo,HIGH);
 float dis=(dur*0.0343)/2;
 Serial.print("Distance is: ");
 Serial.println(dis);
```

```
//LED ON
if(dis>=100)
 digitalWrite(8,HIGH);
 digitalWrite(7,HIGH);
 //Buzzer For ultrasonic Sensor
if(dis > = 100)
for(int i=0; i<=30000; i=i+10)
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
//Temperate Sensor
double a= analogRead(A0);
double trig=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value: ");
Serial.println(trig);
delay(1000);
```

```
if(trig >= 100)
 digitalWrite(8,HIGH);
 digitalWrite(7,HIGH);
//Buzzer for Temperature Sensor
if(trig >= 100)
for(int i=0; i<=30000; i=i+10)
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
//LED OFF
if(trig<100)
 digitalWrite(8,LOW);
 digitalWrite(7,LOW);
```

## **OUTPUT:**

