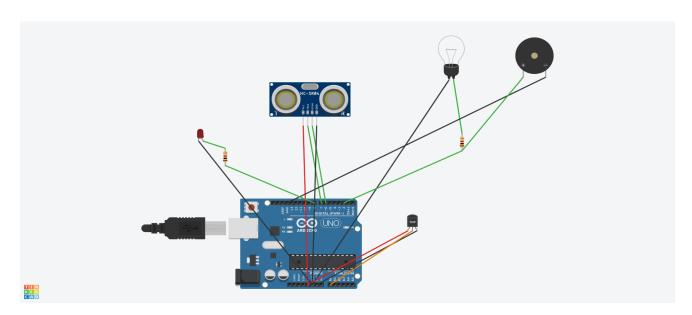
ASSIGNMENT-1 HOME AUTOMATION

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



```
Code:
// C++ code
#define t 7
#define e 6
#define bulb 2
void setup()
 Serial.begin(9600);
 pinMode(t,OUTPUT);
 pinMode(e,INPUT);
 pinMode(12,OUTPUT);
 pinMode(bulb,OUTPUT);
}
void loop()
{
 //ultrasonic sensor
 digitalWrite(t,LOW);
```

```
digitalWrite(t,HIGH);
 delayMicroseconds(10);
 digitalWrite(t,LOW);
 float dur=pulseIn(e,HIGH);
 float dis=(dur/2)*0.0343;
 Serial.print("Distance is: ");
 Serial.println(dis);
 if(dis<100){
 digitalWrite(bulb,HIGH);
 }
 else{
 digitalWrite(bulb,LOW);
 }
 //Temperature Sensor
 double a= analogRead(A0);
 double temp=(((a/1024)*5)-0.5)*100;
 Serial.print("Temp Value: ");
 Serial.println(temp);
 delay(1000);
 //LED ON
 if(temp>=100)
 {
  digitalWrite(8,HIGH);
 }
 //LED OFF
 if(temp<100)
  digitalWrite(8,LOW);
}
}
```