## **SMART HOME**

#### **SUBMITTED BY:**

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DEPARTMENT OF ECE

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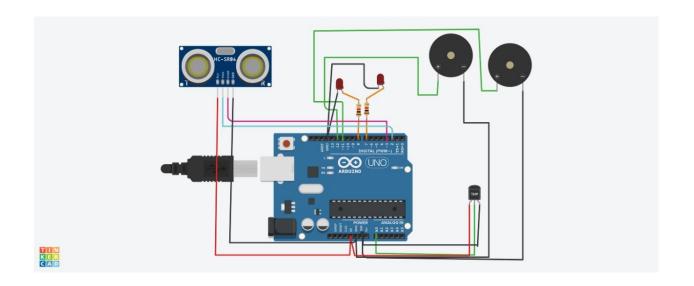
#### **CODE:**

int t=2;

```
int e=3;
void setup()
 Serial.begin(9600);
 pinMode(t,OUTPUT);
 pinMode(e,INPUT);
 pinMode(12,OUTPUT);
void loop()
 //ultrasonic sensor
 digitalWrite(t,LOW);
 digitalWrite(t,HIGH);
 delayMicroseconds(10);
 digitalWrite(t,LOW);
 float dur=pulseIn(e,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 t=(((a/1024)*5)-0.5)*100;
```

```
Serial.print("Temp Value: ");
Serial.println(t);
delay(1000);
//LED ON
if(t > = 100)
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
//Buzzer for Temperature Sensor
if(t>=100)
for(int i=0; i<=30000; i=i+10)
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
//LED OFF
if(t<100)
digitalWrite(8,LOW);
digitalWrite(7,LOW);
```

### **FIGURE:**



# TINKERCAD LINK:

https://www.tinkercard.com/things/3s0KDJ2B0yJ