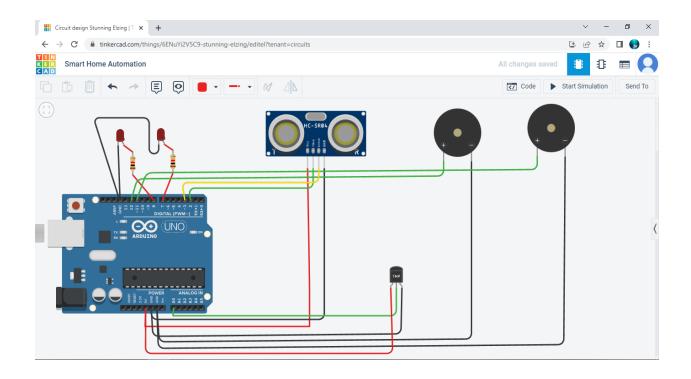
SMART HOME AUTOMATION

M.ARFIYA

REG NO:960219106031

Circuit Diagram



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);
}</pre>
```

Tinkercad link:

https://www.tinkercad.com/things/6ENuYi2V5C9