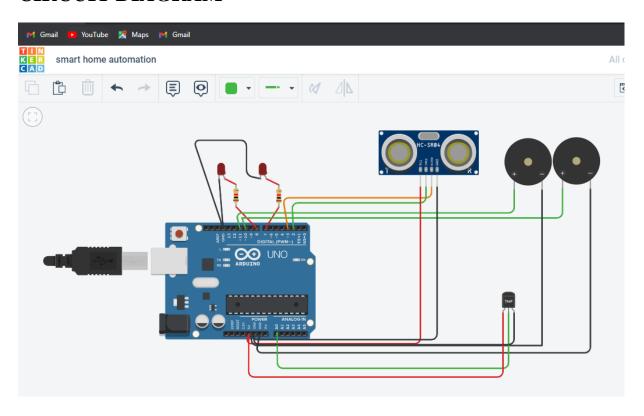
SMART HOME AUTOMATION

AMRIN FARHA

Reg- 960219106020

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/j6yUWg48EIL