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Topic	Signs With smart connectivity for better road safety
Assignment 1	Smart home automation using tinker card

CIRCUIT DESIGN :
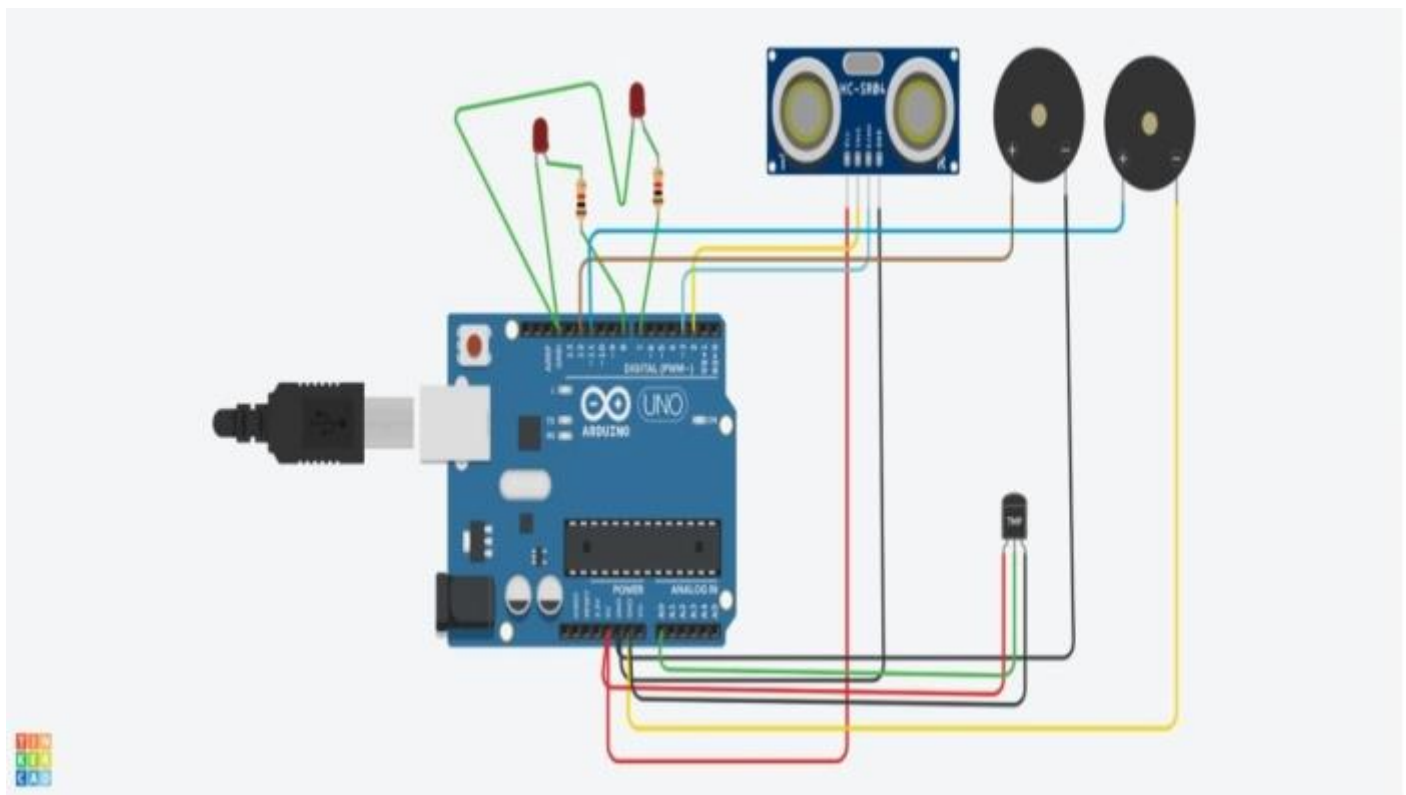
Code:

```
int
t=2;
    int e=3;
    void setup()
    {
    Serial.begin(9600);
```

```arduino
        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);
}
}
```