ASSIGNMENT 1

Date	19/9/2022
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Project Name	Smart Waste Management System For Metropolitan Cities

Circuit diagram:
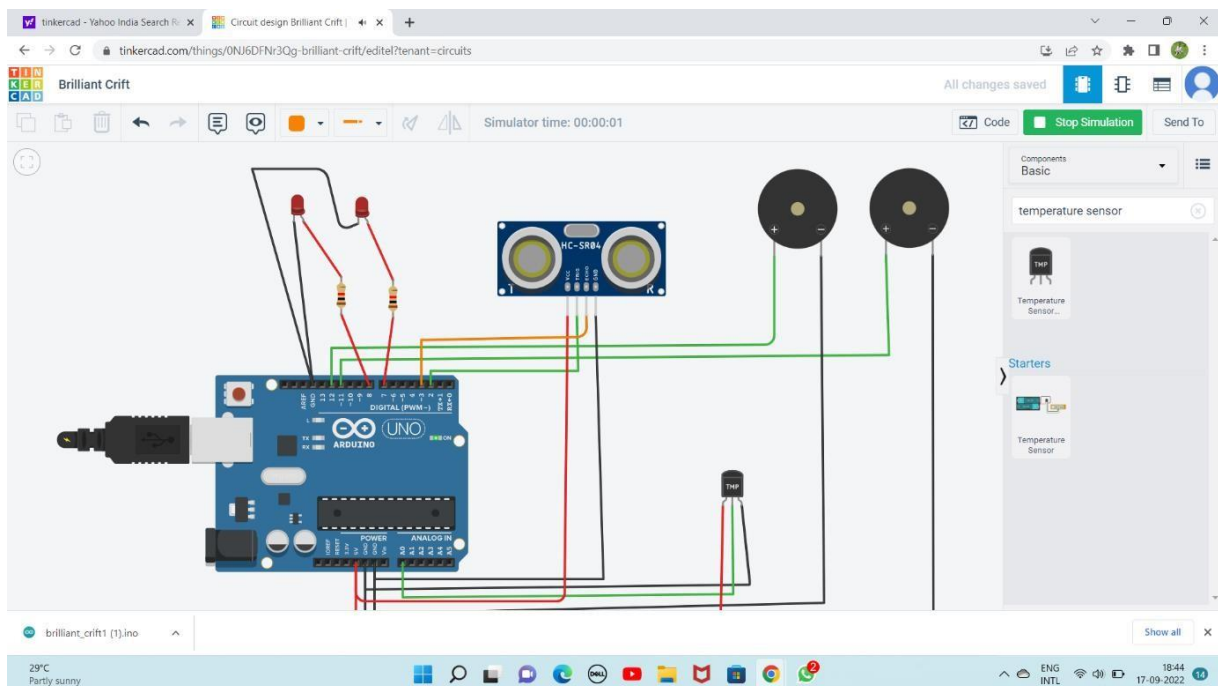
Code:

```
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);
floatdur=pulseIn(e,HIGH);
float dis=(dur*0.0343)/2;
Serial.print("Distance is: ");
Serial.println(dis);
//LED ON
if(dis>=100)
//(in terms of centimeter)
{
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);
}
}
//LED OFF if(t<100)
{
digitalWrite(8,LOW);
digitalWrite(7,LOW);
}
}
```