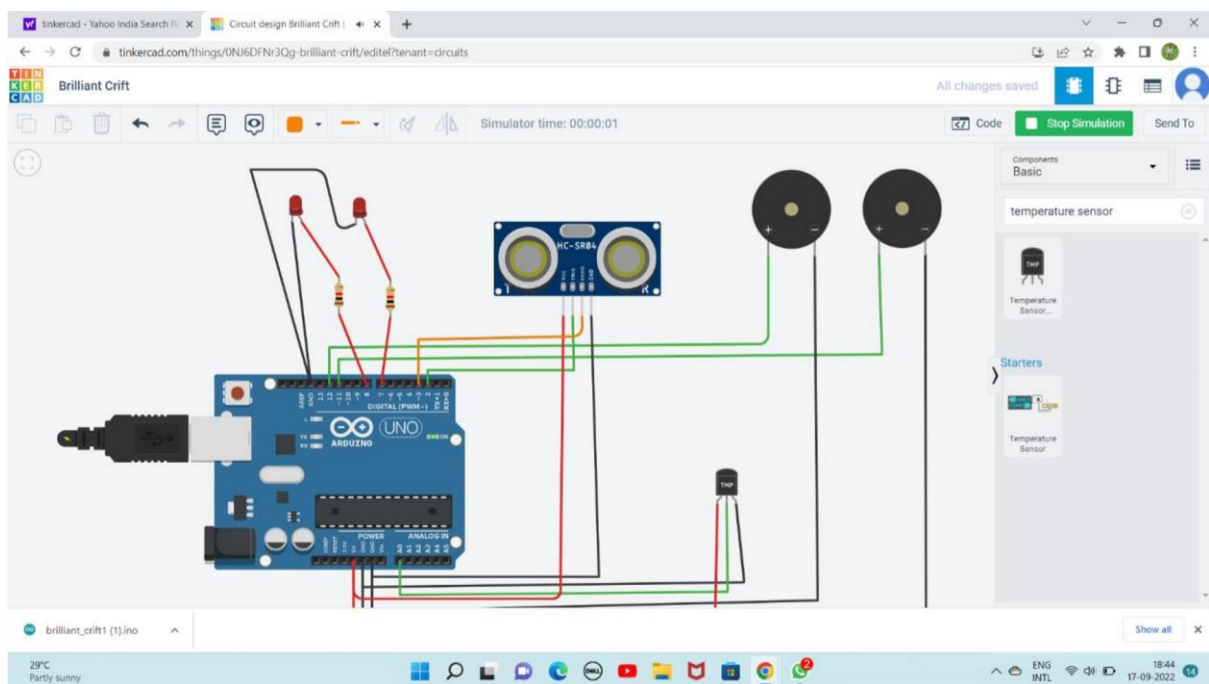


ASSIGNMENT 1

Date	19/9/2022
Name	G.M.Reshmi
Team ID	PNT2022TMID34215
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);
}
}

```

Output:

