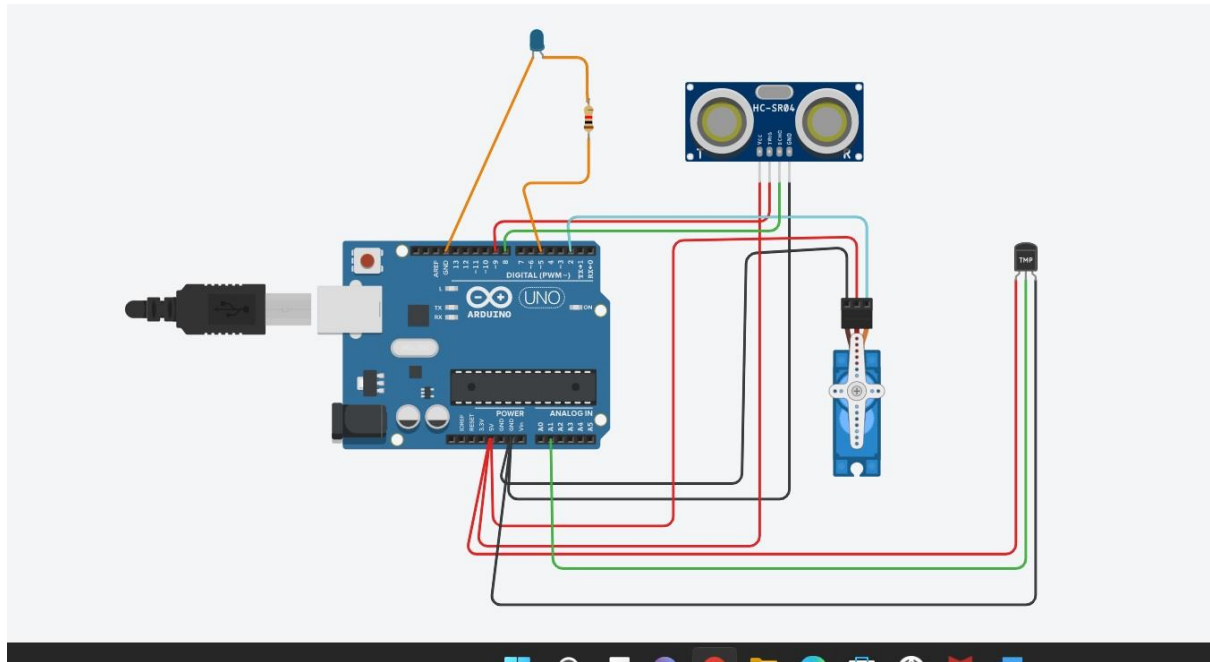G.YOGESHWARAN

421319106043(BATCH9)

SMART WASTE MANAGEMENT FOR METRO POLITIAN CITIES

CIRCUIT DIAGRAM:

Code:

```
#include<Servo.h>
Servo myServo;

int t =9;
int e =8;
long time=0;
long dist=0;

void setup()
{
```

```
  myServo.attach(2);
  Serial.begin(9600);
  pinMode(e,INPUT);
  pinMode(t,OUTPUT);
  pinMode(5,OUTPUT);
}

void loop()
{
  digitalWrite(t,LOW);
  delay(100);
  digitalWrite(t,HIGH);
  delay(100);
  digitalWrite(t,LOW);
  float time = pulseIn (e, HIGH);
  float dist = time*0.034/2;

  double a=analogRead(A1);
  double tem=((((a/1024)*5)-0.5)*100);
  Serial.print("temp value:");
  Serial.println(tem);
```

```
if(dist<=300 || dist>=0)
{
  {
  myServo.write(0);
   delay(500);
   myServo.write(30);
    delay(500);
   myServo.write(60);
  delay(500);
   myServo.write(90);
  delay(500);
   myServo.write(120);
  delay(500);
  myServo.write(160);
  delay(500);
  myServo.write(180);
  delay(500);
  }
  digitalWrite(5,HIGH);
}
 else
  {
  Serial.println("out of boundary");
  }
  {
```

```
    myServo.write(0);
  }
}
```