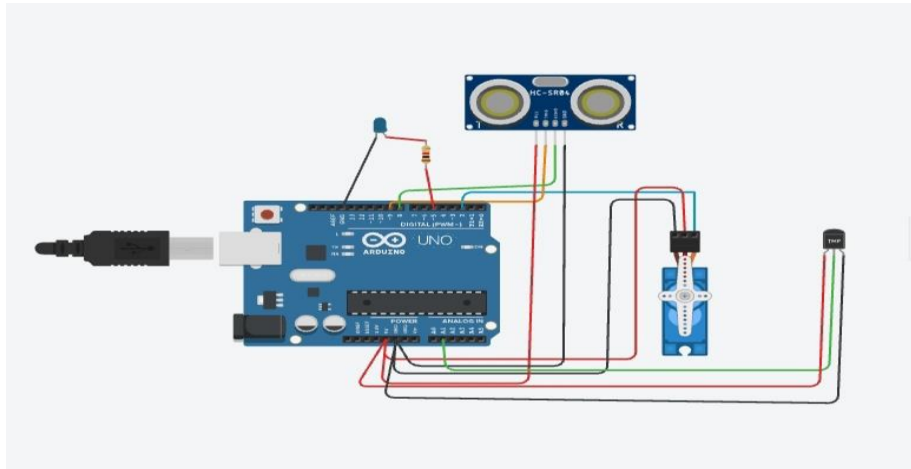B.BALAJI

421319106007

Domain-IOT

Title- smart waste management for metropolitan cities


```
#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);

  }

}
```

Link -https://www.tinkercad.com/things/kSwcwk4eHw4