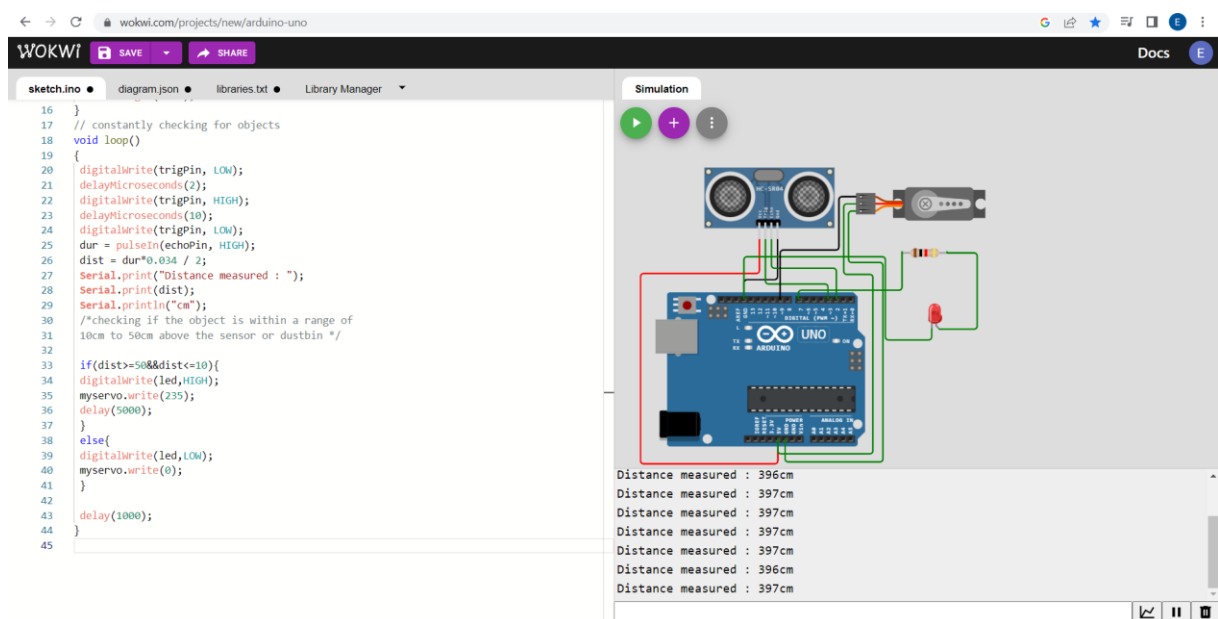


## Delivery of Sprint 2

Date	5 <sup>th</sup> November 2022
Team ID	PNT2022TMID30256
Project name	Smart waste management system for metropolitan cities
Marks	



Code:

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

```
Servo myservo;
```

```
// defining the pins and variables
```

```
int led=6;
```

```
#define echoPin 2 #define trigPin 3 long
```

```
dur; // duration for the echo to reach int
```

```
dist; // distance of the object
```

```

void setup()
{
    pinMode(trigPin,OUTPUT); // trigger as output
    pinMode(led,OUTPUT); // led as indication
    pinMode(echoPin,INPUT); // echo as input myservo.attach(9);
    // giving commands to servo
    Serial.begin(9600);

}

// constantly checking for objects
void loop()
{

    digitalWrite(trigPin, LOW);
    delayMicroseconds(2);

    digitalWrite(trigPin, HIGH);
    delayMicroseconds(10);
    digitalWrite(trigPin, LOW);

    dur = pulseIn(echoPin, HIGH);
    dist = dur*0.034 / 2;
    Serial.print("Distance measured : ");
    Serial.print(dist);
    Serial.println("cm");

    /*checking if the object is within a range of
    10cm to 50cm above the sensor or dustbin */

```

```
    if(dist<=50&&dist>=10){  
    digitalWrite(led,HIGH);  
    myservo.write(235);  
    delay(5000);  
    }  
    else{  
        digitalWrite(led,LOW);  
    myservo.write(0);  
    }  
  
    delay(1000);  
  
}
```