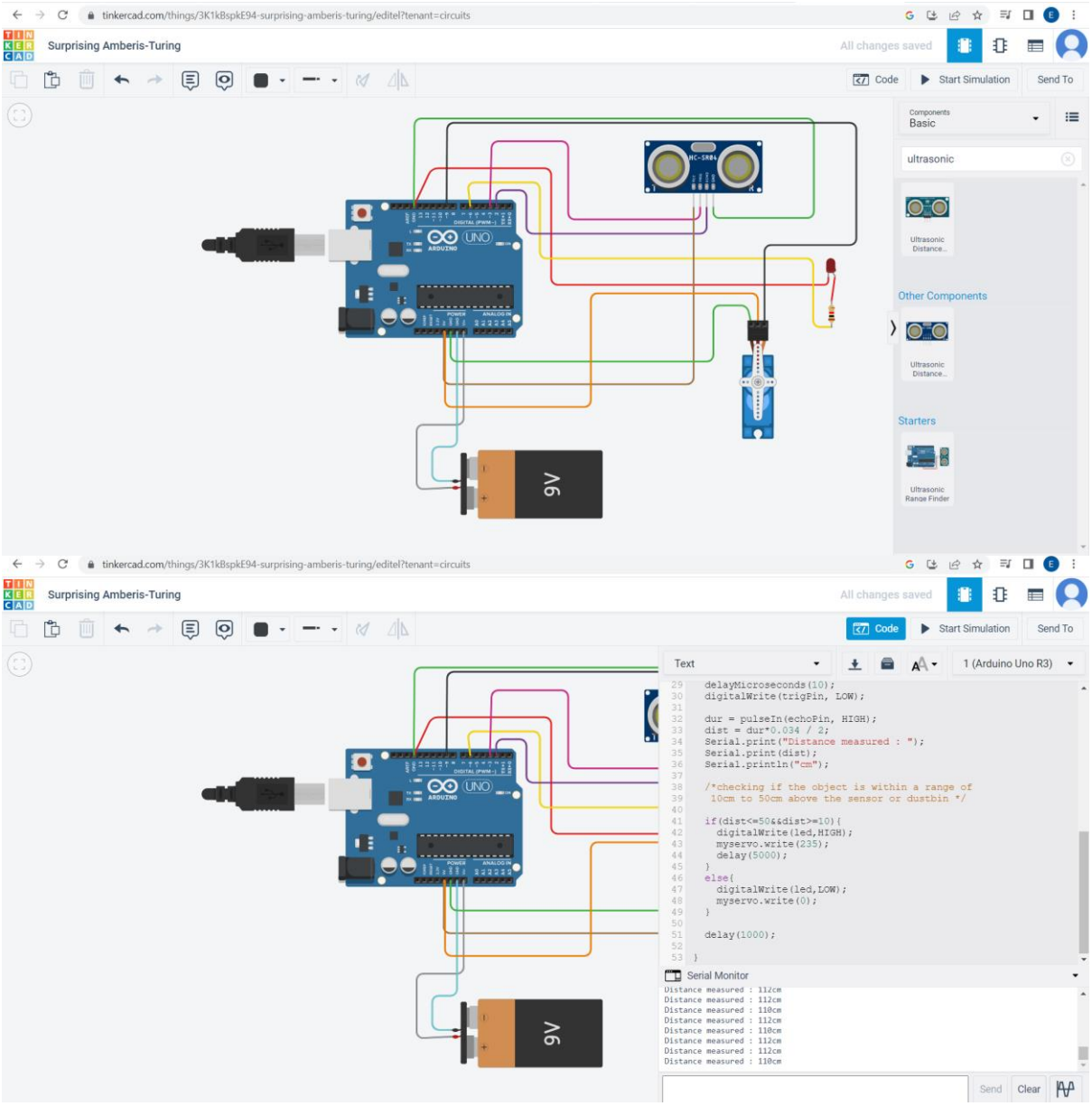
Delivery of Sprint 2

Date	5th 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);

}
```