Experiment 1.3

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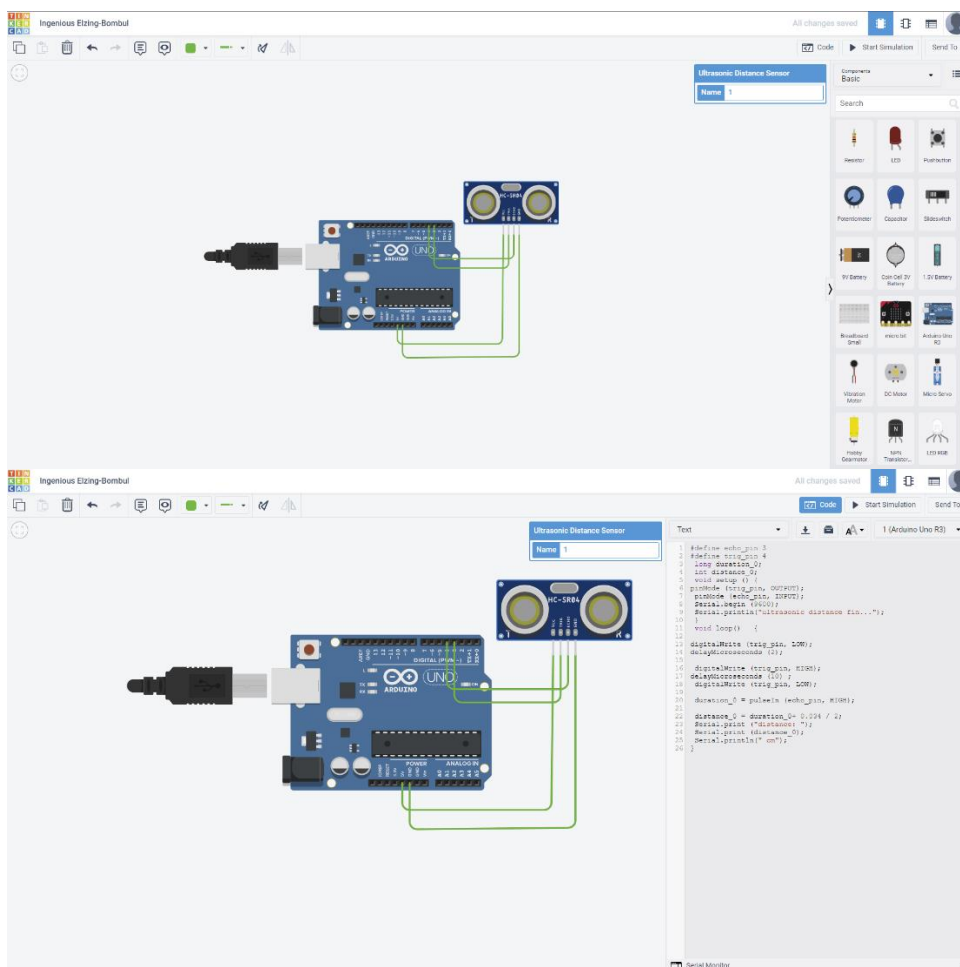
1. Aim:

Demonstration of Autodesk Tinkercad Simulation Platform.

2. Objective:

- Learn about IoT based simulations.
- Testing and model in IoT based simulation platform.

3. Code-Output:

- Hardware Requirement
  - Arduino Uno
  - Ultrasonic

```
#define echo_pin 3
#define trig_pin 4
 long duration_0;
 int distance_0;
 void setup () {
pinMode (trig_pin, OUTPUT);
 pinMode (echo_pin, INPUT);
 Serial.begin (9600);
 Serial.println("ultrasonic distance fin...");
 }
 void loop()   {
digitalWrite (trig_pin, LOW);
delayMicroseconds (2);
 digitalWrite (trig_pin, HIGH);
delayMicroseconds (10) ;
 digitalWrite (trig_pin, LOW);
 duration_0 = pulseIn (echo_pin, HIGH);
 distance_0 = duration_0+ 0.034 / 2;
 Serial.print ("distance: ");
 Serial.print (distance_0);
 Serial.println(" cm"); }
```

OUTPUT : -