

Lab Evaluation -1

Name – Meharamt Singh

Roll No. – 102003241

Group – 2CO10

Email – msingh10_be20@thapar.edu

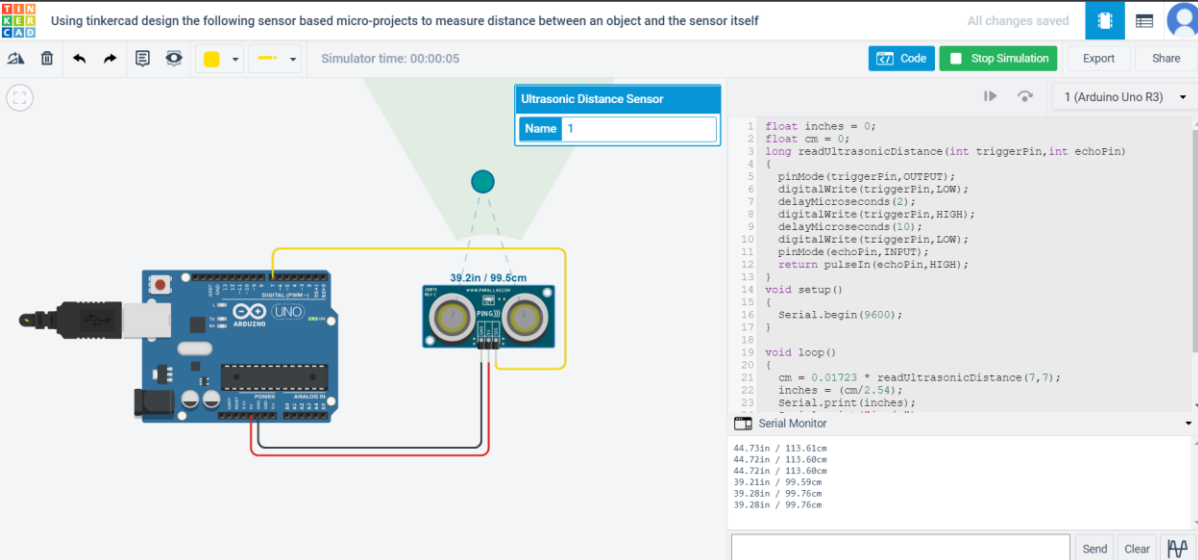
Q. Using Tinkercad design the following sensor based micro-projects to measure distance between an object and the sensor itself.

Using tinkercad design the following sensor based micro-projects to measure distance between an object and the sensor itself

Simulator time: 00:00:05

Ultrasonic Distance Sensor
Name 1

39.2in / 99.5cm



```
1 float inches = 0;
2 float cm = 0;
3 long readUltrasonicDistance(int triggerPin, int echoPin)
4 {
5   pinMode(triggerPin, OUTPUT);
6   digitalWrite(triggerPin, LOW);
7   delayMicroseconds(2);
8   digitalWrite(triggerPin, HIGH);
9   delayMicroseconds(10);
10  digitalWrite(triggerPin, LOW);
11  pinMode(echoPin, INPUT);
12  return pulseIn(echoPin, HIGH);
13 }
14 void setup()
15 {
16   Serial.begin(9600);
17 }
18 void loop()
19 {
20   cm = 0.01723 * readUltrasonicDistance(7,7);
21   inches = (cm/2.54);
22   Serial.print(inches);
23   Serial.print(" cm");
24   Serial.print("\n");
25   delay(1000);
26 }
```

Serial Monitor

44.73in / 113.61cm
44.72in / 113.68cm
44.72in / 113.68cm
39.21in / 99.59cm
39.28in / 99.76cm
39.28in / 99.76cm

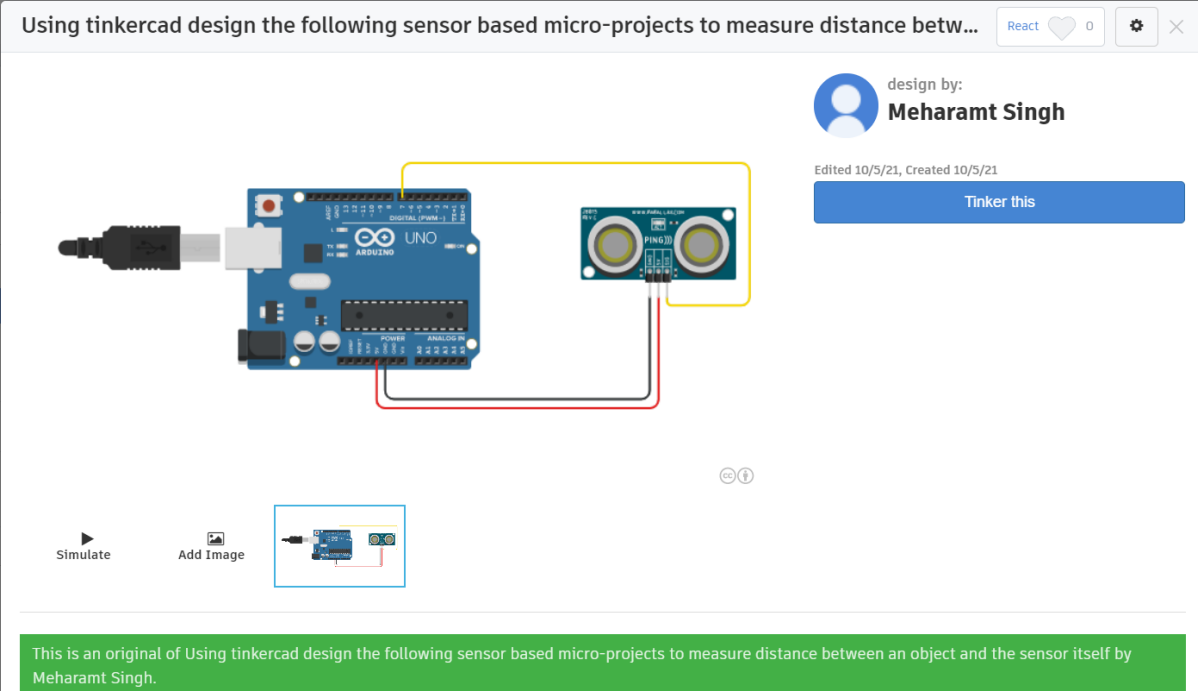
Using tinkercad design the following sensor based micro-projects to measure distance betw...

React 0

design by:
Meharamt Singh

Edited 10/5/21, Created 10/5/21

Tinker this



Simulate Add Image

This is an original of Using tinkercad design the following sensor based micro-projects to measure distance between an object and the sensor itself by Meharamt Singh.