ASSIGNMENT 4

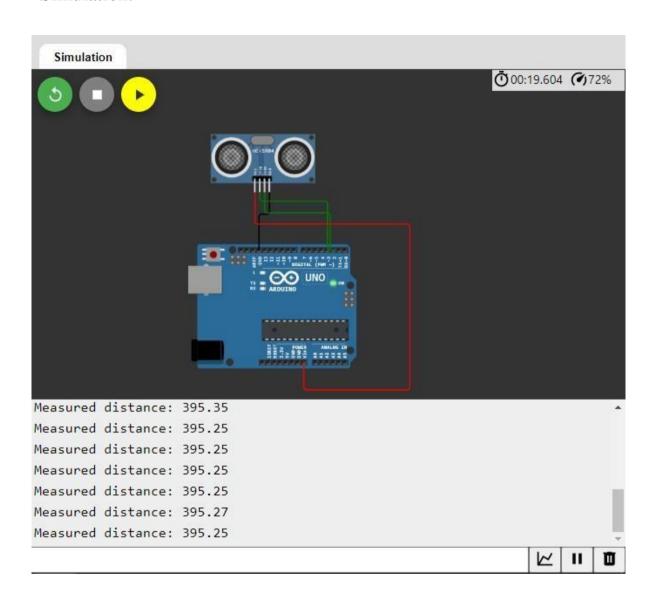
Date	15 November 2022
Team ID	PNT2022TMID18446
Project Name	Industry-Specific Intelligent Fire Management System
Maximum Marks	2 Marks

SOLUTION:

Code:

```
#define ECHO PIN 2
#define TRIG_PIN 3
void setup() {
Serial.begin(9600);
pinMode(TRIG_PIN, OUTPUT);
pinMode(ECHO_PIN, INPUT);
float readDistanceCM() {
digitalWrite(TRIG PIN, LOW);
delayMicroseconds(2);
digitalWrite(TRIG_PIN, HIGH);
delayMicroseconds(10);
 digitalWrite(TRIG_PIN, LOW);
int duration = pulseIn(ECHO_PIN, HIGH);
 return duration * 0.034 / 2;
void loop() {
float distance = readDistanceCM();
if(distance <= 100)</pre>
Serial.println("person detected ");
else{
Serial.print("Measured distance: ");
Serial.println(readDistanceCM());
delay(1000);
```

Simulation:



IBM WATSON:

