Assignment -4

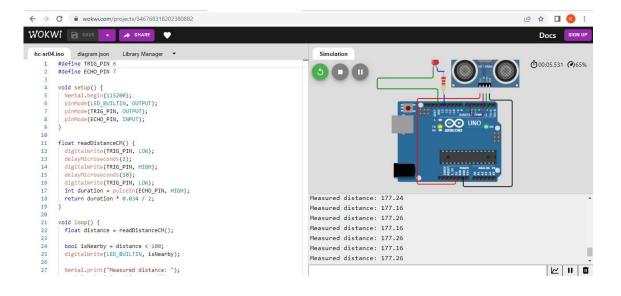
Assignment Date	27 October 2022
Student Name	T.CHAKRI
Student Roll Number	721419106035
Maximum Marks	2 Marks

Question:

Write code and connections in wokwi for ultrasonic sensor. Whenever distance is less than 100 cms send "alert" to ibm cloud and display in device recent events.

Code:

```
#define TRIG_PIN 6
#define ECHO_PIN 7
void setup() {
Serial.begin(115200);
pinMode(LED_BUILTIN, OUTPUT);
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);
duration = pulseIn(ECHO_PIN, HIGH);
return duration * 0.034 / 2;
} void
loop() {
  float distance = readDistanceCM();
  bool isNearby = distance < 100;</pre>
digitalWrite(LED_BUILTIN, isNearby);
  Serial.print("Measured distance: ");
  Serial.println(readDistanceCM());
delay(100);
Circuit & Output:
```



Reference Link:

https://wokwi.com/projects/346768318202380882