ASSIGNMENT-4

Assignment Date	22 October 2022
Student Name	Vigneshwar J
Student Roll Number	311019205044
Maximum Mark	2 Marks

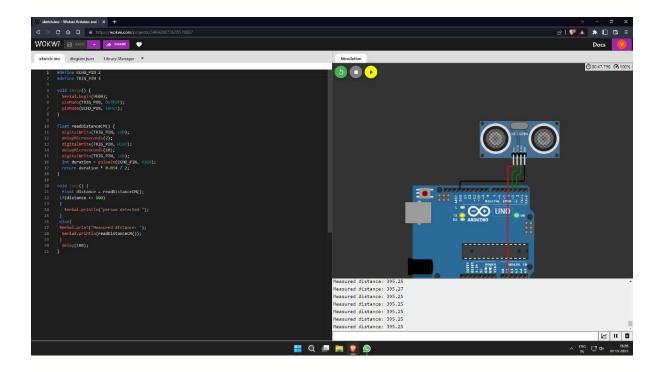
Question:

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

Program:

```
#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)
 Serial.println("person detected ");
```

```
else {
    Serial.print("Measured distance: ");
    Serial.println(readDistanceCM());
}
delay(100);
}
```



Wokwi Link: https://wokwi.com/projects/346928873678570067

IBM Cloud

