Assignment - 4

Assignment Date	19 October 2022
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Maximum Marks	2 Marks

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

Code:

```
#define ECHO_PIN 2
#define TRIG PIN 3
#define organization ="o58zsl"
#define device type ="abcd"
#define device Id="1234"
#define auth method="token"
#define auth_Token="12345678"
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);
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(1000);
}

Wokwi link: https://wokwi.com/projects/348400063902384722
```







