ASSIGNMENT-4 SUBMITTED BY AARTISHA. S

Assignment Date	26 October 2022
Team ID	PNT2022TMID15087
Project Name	GAS LEAKAGE MONITORING SYSTEM AND ALERTING SYSTEM FOR INDUSTRIES
Maximum Marks	2 Marks

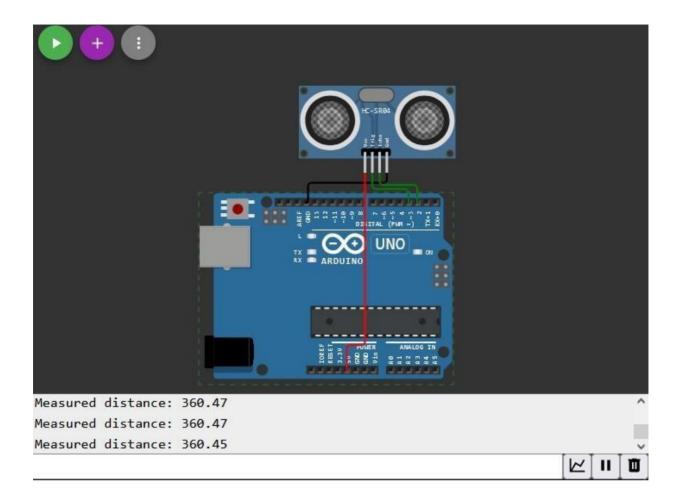
Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cms send "alert" to ibm cloud and display in device recent events.

Solution:

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization = "mmbh4c"
#define deviceType = "Ultrasonic"
#define deviceId = "1112"
#define authMethod = "use-token-auth"
#define authToken = "123456789"

void setup() {
    Serial.begin(9600);
    pinMode(TRIG_PIN, OUTPUT);
    pinMode(ECHO_PIN, INPUT);
}
```

```
void loop() {
  Serial.println("person detected ");
Serial.print("Measured distance: ");
 Serial.println(readDistanceCM());
```



IBM Cloud Device Recent Events

Identity	Device Information	Recent Events	State	Logs		
The recent eve	ents listed show the live str	eam of data that is com	ning and going	from this de	vice.	
Event	Value			Format	Last Received	
event_1	{"status":"Person D	etected"}		json	a few seconds ago	•
event_1	{"status":"Person D	etected"}		json	a few seconds ago	
event_1	{"status":"Person D	etected"}		json	a few seconds ago	
event_1	{"status":"Person D	etected"}		json	a few seconds ago	
				1 Sim	ulation running	