ASSIGNMENT-4 SUBMITTED BY RACHAGHA PRABHAA B S

Assignment Date	26 October 2022
Team ID	PNT2022TMID15035
Project Name	Industry-specific intelligent fire management system
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.

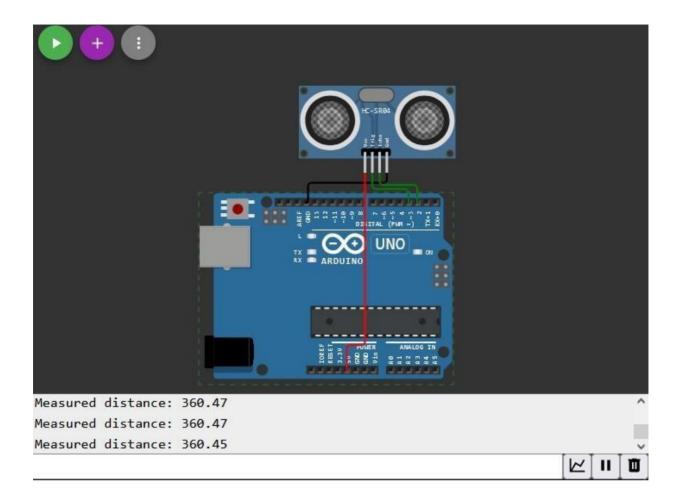
Solution:

```
#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);
}

float readDistanceCM() {
```

```
delayMicroseconds(10);
void loop() {
 float distance = readDistanceCM();
  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	nts listed show the live stre	eam of data that is com	ning and going	g from this de	vice.		
Event	Value			Format	Last Received		
event_1	{"status":"Person De	etected"}		json	a few seconds ago	-	
event_1	{"status":"Person De	etected"}		json	a few seconds ago		
event_1	{"status":"Person De	etected"}		json	a few seconds ago		
event_1	{"status":"Person De	etected"}		json	a few seconds ago		
				1 Sim	ulation running		