## **ASSIGNMENT-4**

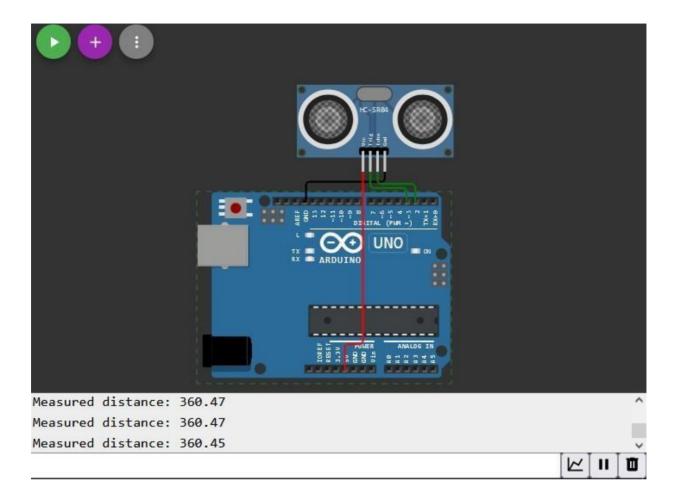
<b>Assignment Date</b>	26 October 2022
Team ID	PNT2022TMID14976
Project Name	SMART WASTE MANAGEMENT FOR METROPOLITAN CITIES
Maximum Marks	2 Marks

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);
float readDistanceCM() {
```

```
int duration = pulseIn(ECHO PIN, HIGH);
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	nts listed show the live stre	eam of data that is con	ning and going	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	