Assignment -4

Assignment Date	26 October 2022
Team ID	PNT2022TMID18102
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	2 Marks

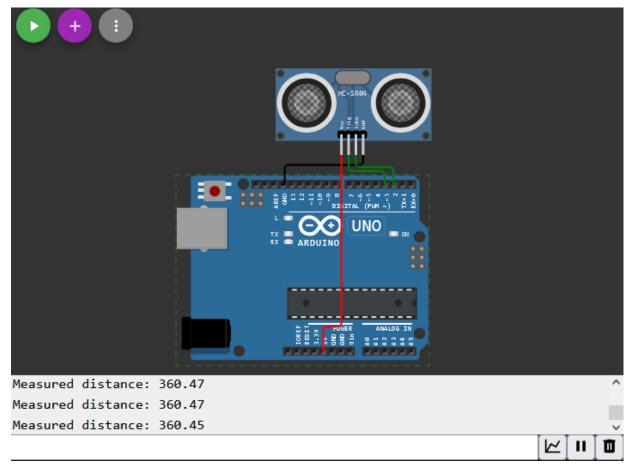
Question-1:

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() {
```

```
void loop() {
 float distance = readDistanceCM();
if(distance <= 100)</pre>
  Serial.println("person detected ");
Serial.print("Measured distance: ");
 Serial.println(readDistanceCM());
 delay(100);
```



Wokwi Link: https://wokwi.com/projects/346593406770741842

IBM Cloud

Device Recent Events

