

## ASSIGNM ENT 4

Date	4/10/22		
Name	santhiya		
Team ID	PNT2022TMID28956		
Project Name	Smart Waste Management System for metropolitan cities		

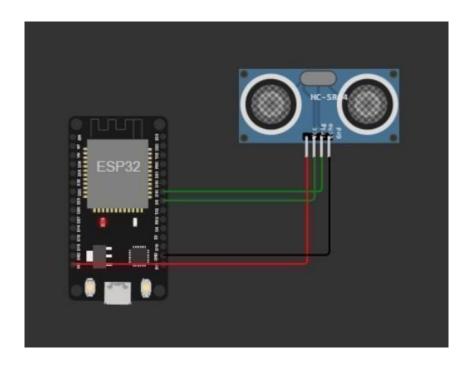
Write code and connections in wokwi for ultrasonic sensor.

Whenever distance is less than 100 cms send "alert" to ibm cloud and displayin device recent events.

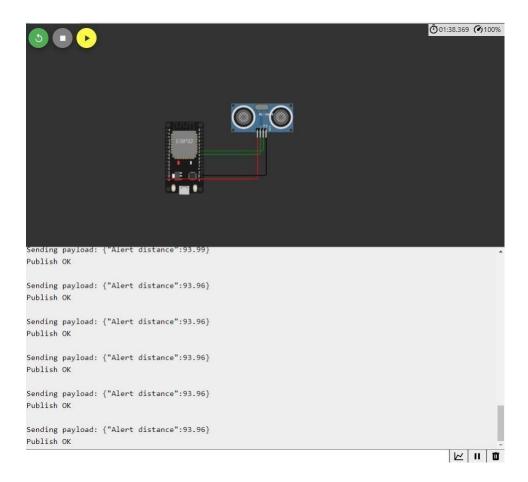
Upload document with wokwi share link and images of ibm cloud **CODE:** 

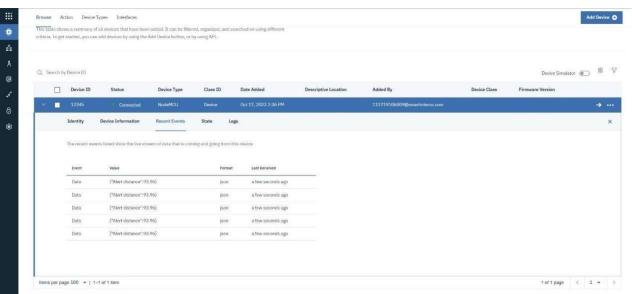
```
pinMode(echopin, INPUT); wifiConnect();
  mqttConnect();
} void loop() { publishData();
  delay(500);
  if (!client.loop()) { mqttConnect(); }
void wifiConnect() {
  Serial.print("Connecting to "); Serial.print("Wifi");
WiFi.begin("Wokwi-GUEST", "", 6); while (WiFi.status() !=
WL_CONNECTED) { delay(500); Serial.print(".");
  Serial.print("WiFi connected, IP address: "); Serial.println(WiFi.localIP());
void mqttConnect() { if
  (!client.connected()) {
    Serial.print("Reconnecting MQTT client to "); Serial.println(server); while
    (!client.connect(clientId, authMethod, token)) { Serial.print("."); delay(500);
  } initManagedDevice(); Serial.println(); } }
void initManagedDevice() { if
  (client.subscribe(topic)) {
    // Serial.println(client.subscribe(topic)); Serial.println("subscribe to cmd
    OK");
  } else {
    Serial.println("subscribe to cmd FAILED"); } } void
{ digitalWrite(trigpin,LOW); digitalWrite(trigpin,HIGH);
```

## **CONNECTIONS:**



## **OUTPUT:**





## **WOKWI LINK -**

https://wokwi.com/projects/346405970317935188