ASSIGNMENT 4

Date	2 Nov 22
Team ID	PNT2022TMID23556
Project Name	Smart waste management system for metropolitan cities

Write code and connections in wokwi for ultrasonic sensor.

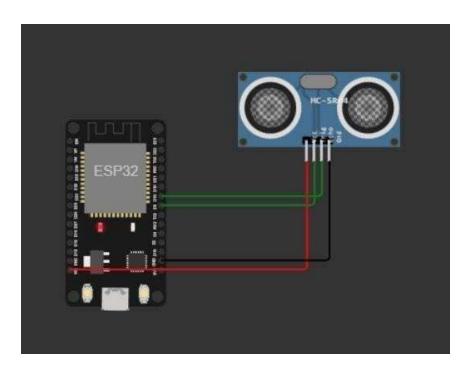
Whenever distance is less than 100 ems send "alert" to ibm cloud and display in device recent events.

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

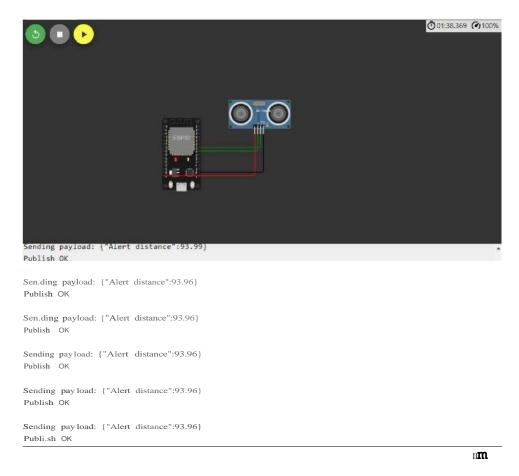
```
#include <WiFi.h>
#include <PubSubClient.h> i iCliert
#define "nhpwjc"
#define "NodeMCU"
#define :v1 "USE YOUR ID"
#define HE "USE YOUR TOKEN"
#define \mathcal{C}_{f} 0.034
char ver LI
".messaging.internetofthings.ibmcloud.com" char 1b L Lsh op.c.[
2/cmd/home/fmt/String" char ,rod ] "use-tokenauth"
char Lie·n.Id ] "d: " ':VICE: rr " '::::>;
            c.lit v=-, 1883, wi iClit void Jb •• c,h;:)dtd(,;
canst int rispin 5;
canst int 'lapin 18;
String 1+
long
float ic:t.
 Serial begin 115200
```

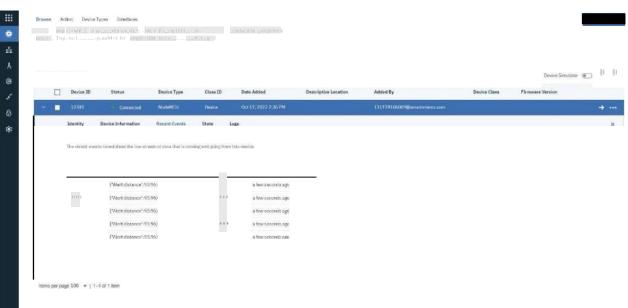
```
INPUT wif..C on neet, ,,
 pinMode
           hopir
 delay 500J;
     !cl iN loop ) { mqt tConnec.t(,,
 Serial print "Connecting to"
                                             "Wifi"
                               Serial print
      begin "Wokwi-GUEST"
                              6 while
                 delay 500,,
   Serial print"."
 Serial print "WiFi connected, IP address: " Serial println
                                                             iFi.localIP());
      t tC.unnu t 1
                    if
   Serial print "Reconnecting MQTT client to"
                                              Serial println
                                                                      while
                                                   Serial print
                                                                    delay 500,,
   } rn..tMdndged'1eviu,(
                        Serial println
 } }
void ·itManagPdDt'Vice' 1 if
   // Serial. println(client. subscribe(topic)); Serial println "subscribe
                                                                         to cmd
   OK"
   else
   Serial println "subscribe to cmd FAILED" }
                                               void
               'ig,.>i LOW digitalWrite
 digitalWrite
                                         ·igp
                                               HIGH
```

CONNECTIONS:



OUTPUT:





WOKWILINK-

https://wokwi.com/projects/346405970317935188