### Assignment -4

## **Python Programming**

Assignment Date	26 October 2022
Student Name	Mr.Hariharan.P
Student Roll Number	810419104031
Maximum Marks	2 Marks

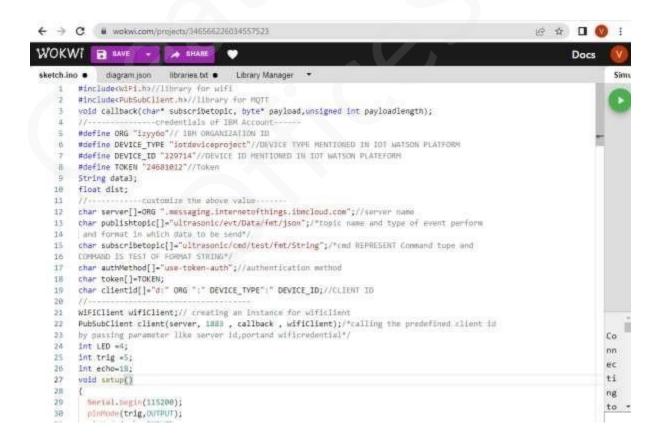
#### Question-1:

Write code and connections in wokwi for ultrasonic sensor.

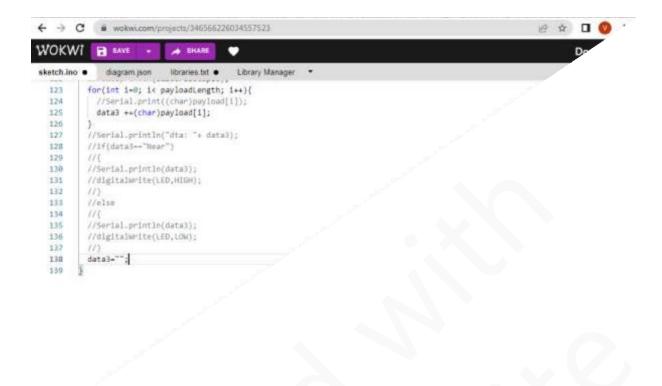
Whenever distance is less than 100 cms send "alert" to ibm cloud and display in device recent events.

Upload document with wokwi share link and images of ibm cloud.

#### **Solution:**

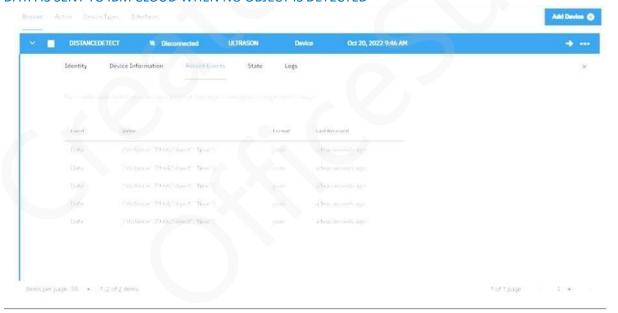


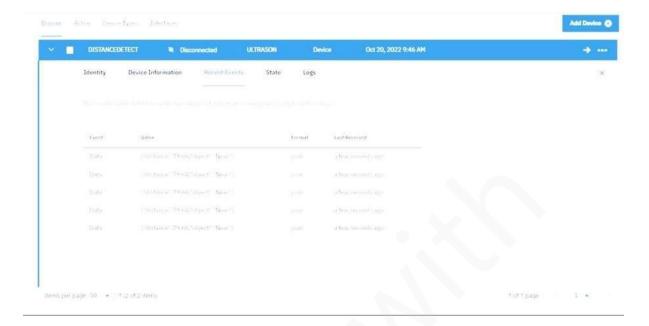
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← → C ■ wokwi.com/projects/346566226034557523
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WOKWI B SAVE
                                                                                                                                                  Docs
sketch,ino •
                 diagram.json libraries.txt • Library Manager
                                                                                                                                                             Simu
    92
    93
                initManagedDevice();
    94
                Serial.printin();
    95
    96
    97
           void wificonnect()//function defenition for wificonnect
    98
    99
              Serial.printin();
             Serial.print("Connecting to ");
Wifi.begin("Wokwi.GUEST", "",6);//PASSING THE WIFI CHEDIDENTIALS TO ESTABLISH CONNECTION while (Wifi.status() !-NL_CONNECTED)(
   100
   101
   192
   103
                delay(508);
                Serial.print(".");
   184
   105
             Serial.println("");
Sorial.println("WiF1 connected");
Serial.println("IP address");
   186
   197
   108
   169
              Serial.println(WiF1.localIP());
   110
           void initManagedDevice(){
  if(client.subscribe(subscribetopic)){
    Serial.println((subscribetopic));
    Serial.println("subscribe to cmd OK");
   111
   112
   133
   114
                                                                                                                                                           Co
   115
             }else(
                                                                                                                                                           nn
               Serial.println("subscribe to cmd failed");
   116
                                                                                                                                                           ec
   117
                                                                                                                                                           ti
   118
           void callback(char* subscribetopic,byte*payload,unsigned int payloadlength)
   119
                                                                                                                                                           ng
   120
                                                                                                                                                           to -
   121
             Serial.print("callback invoked for topic: ");
              Serial.println(subscribetopic);
   122
```



# **OUTPUT:**

# DATA IS SENT TO IBM CLOUD WHEN NO OBJECT IS DETECTED





# When object is detected in ultrasonic detector

