Assignment-4

Python Programming

| Assignment Date | 03 NOVEMBER 2022 |
|-----------------|------------------|
| Student Name | Ms.M.Shobika |
| Student Roll No | 732919ECR127 |
| Maximum Marks | 2 Marks |

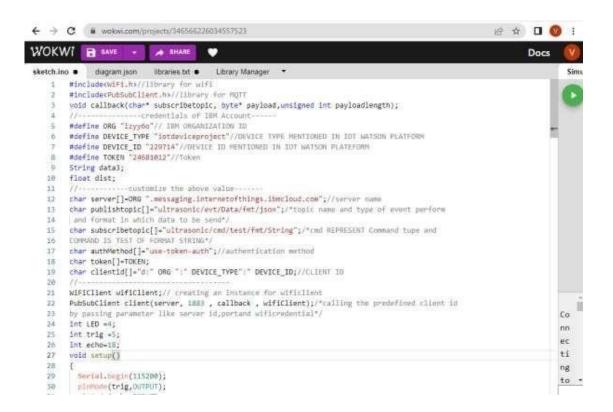
Question-1:

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:



```
← → C  wokw.com/projects/346566226034557523
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WOKWI B SAVE
                                                                                                                                 Docs
                               libraries txt 

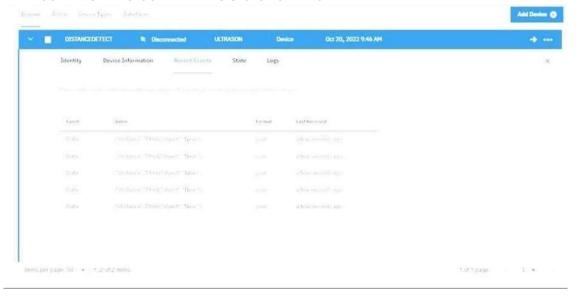
Library Manager 

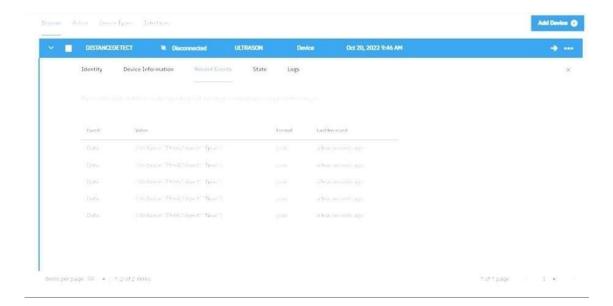
sketch,ino •
                                                                                                                                          Simu
                diagram.json
    92
    93
              initManagedDevice();
              Serial printin();
    94
    95
    96
    97
          void wificonnect()//function defenition for wificonnect
    98
    99
            Serial.printin();
            Serial.print("Connecting to "):
Wiff.begin("Wokal.GUEST", "",6);//PASSING THE WIFI CHEDIDENTIALS TO ESTABLISH CONNECTION
while (Wifi.status() !-NL_CONNECTED){
   100
   101
   102
              delay(508);
   183
              Serial print(".");
   184
   105
            Serial.println("");
Serial.println("WiFi connected");
Serial.println("IP address");
   186
   197
   108
   109
            Serial.printlh(WiFf.localIP());
   110
   111
          void initHanagedDevice(){
   112
            if(client.subscribe(subscribetopic)){
   1113
              Serial.println((subscribetopic));
   114
              Serial.println("subscribe to cmd OK");
   115
            }else(
              Serial.println("subscribe to end failed");
   116
                                                                                                                                         ec
   117
                                                                                                                                         ti
   118
          void callback(char* subscribetopic,byte*payload,unsigned int payloadLength)
   119
                                                                                                                                         ng
   129
                                                                                                                                         to -
            Serial.print("callback invoked for topic: ");
   121
            Serial.println(subscribetopic);
   122
```



OUTPUT:

DATA IS SENT TO IBM CLOUD WHEN NO OBJECT IS DETECTED





When object is detected in ultrasonic detector

