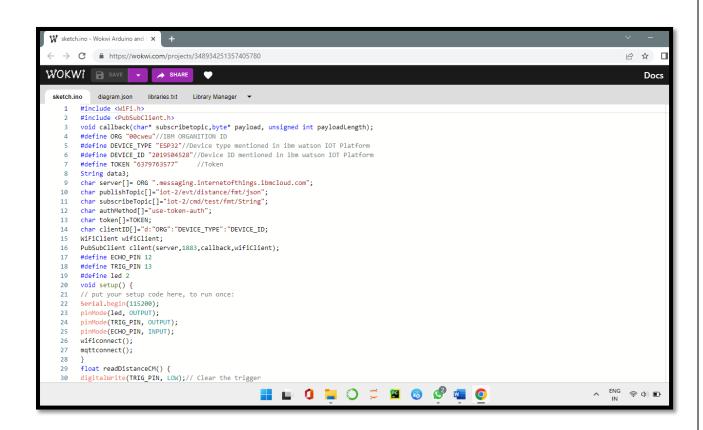
Assignment-4

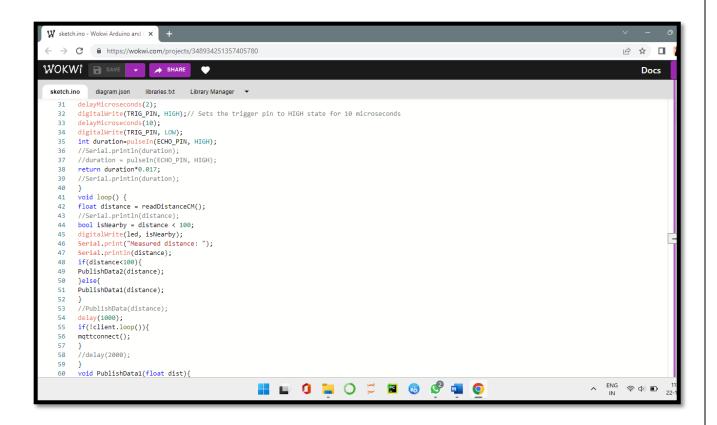
Name	HARRIET PERDITA.P
Roll Number	2019504528

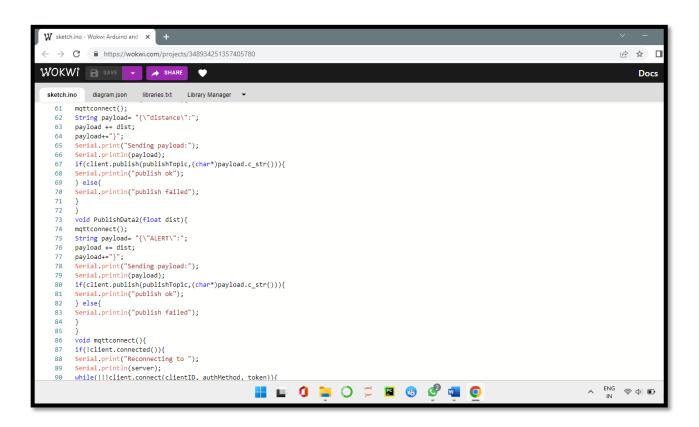
Problem Statement:

Write code and connections in Wokwi for ultrasonic sensor. Whenever distance is less than 100 cm send "alert" to IBM cloud and display in device recent events.

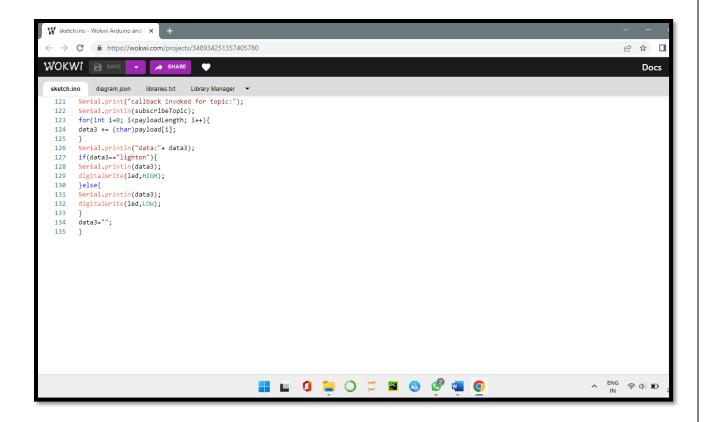
Source Code:







```
₩ sketch.ino - Wokwi Arduino and 🗆 🗙 🛨
← → C  https://wokwi.com/projects/348934251357405780
                                                                                                                                                                      日☆
₩OKWÎ 🖹 SAVE 🗸 🥕 SHARE 🖤
                                                                                                                                                                          Docs
  sketch.ino diagram.json libraries.txt Library Manager ▼
    91 Serial.print(".");
         delay(500);
          initManagedDevice();
          Serial.println();
          void wificonnect(){
         Serial.println();
   100
101
         Serial.print("Connecting to");
WiFi.begin("Wokwi-GUEST","",6);
         while(WiFi.status()!=WL_CONNECTED){
delay(500);
   102
   103
          Serial.print(".");
   104
105
         }
Serial.println("");
Serial.println("WIFI CONNECTED");
Serial.println("IP address:");
Serial.println(WiFi.localIP());
   186
   107
   108
   110
          void initManagedDevice(){
   111
         if(client.subscribe(subscribeTopic)){
Serial.println((subscribeTopic));
   112
          Serial.println("subscribe to cmd ok");
   114
   116
          Serial.println("subscribe to cmd failed");
   118
          void callback(char* subscribeTopic, byte* payload, unsigned int
   120
          payloadLength){
```

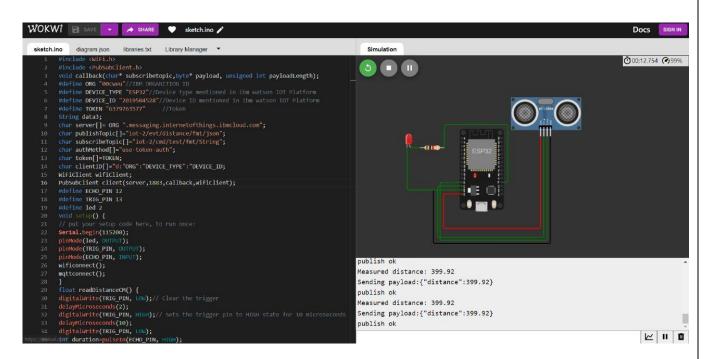


Wokwi Link:

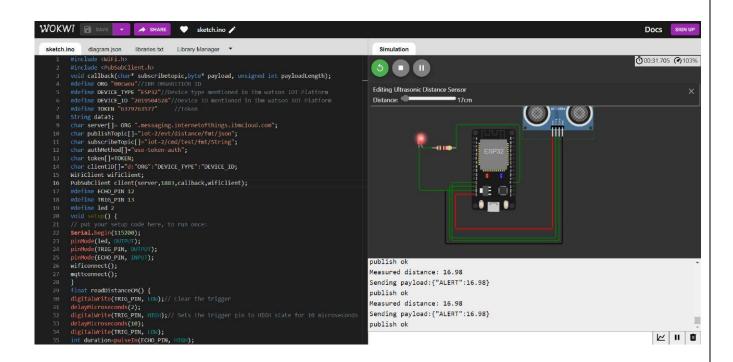
https://wokwi.com/projects/348934251357405780

Output:

Normal Case:



Alert Case:



IBM Cloud Storage:

