ASSIGNMENT-4 DISTANCE DETECTION USING ULTRASONIC SENSOR

DATE	05 NOVEMBER 2022	
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Maximum Marks	2 MARKS	

QUESTION 1:

Write code and connection in wokwi for ultrasonic sensor. Whenever distance is less than 100 cms send "alert" to ibm cloud and display in device recent events.

WONKWI LINK:

https://wokwi.com/projects/347472036582392403

CODE:

```
#include cQUIsnch.by//library for wffi
#include cQUIsncsonic.hby/library for MQTt
#include cQUIsncsonic.hby/library
#include cQUIsncsonic.hby/library for MQTt
#include CQUIsncsonic.hby/library
#include cQUIsncsonic.hby/library for MQTt
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#include cQUIsncsonic.hby/library for MQTt
#include cQUIsncsonic.hby
#include cQUIsncsonic.hby/library for MQTt
#include cQUIsncsonic.hby
#include cQUIsncsonic.ho
#include cQUIsncsonic.ho
#include cQUIsncsonic.ho
#include cQUIsncsonic.ho
#include cQUIsncsonic.ho
#include cQUIsncsonic.ho
#i
```

```
int triges;
int echo-1s;
void strup()/ configureing the ESP32

(

Serial.begin(115200);

pirwode(trig,GUTPUT);
pirwode(trig,GUTPUT);
delay(10);
serial.println();
wificonnect();
mqttromect();

digitalmerite(trig,GUTPU);
delay(in);
delay(in);
delay(in);
serial.println();
delay(in);
float dur-pulse(necho,itius);
delaydirerseconds(in);
delaydirerseconds(in);
delaydirerseconds(in);
float dur-pulse(necho,itius);
float dist- (dur-loayd)/2;
serial.print(Oistance in centimeter:");
```

```
void Publishbata(float dist) (
squitconnect();//function call for connecting to ibm

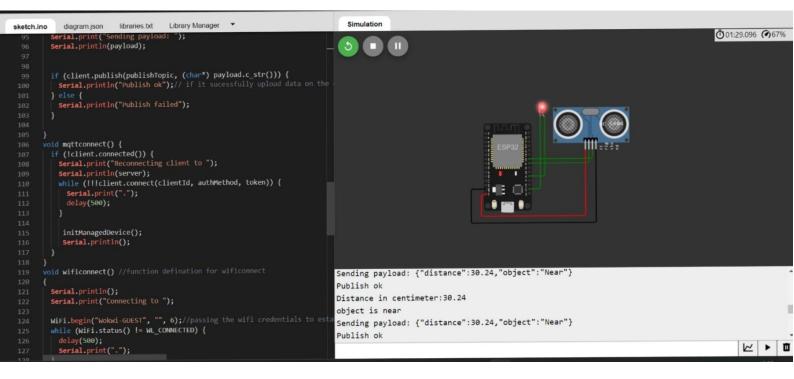
// creating the string in in form Json to update the data to ibm cloud

string object;
if(dist(lB0);

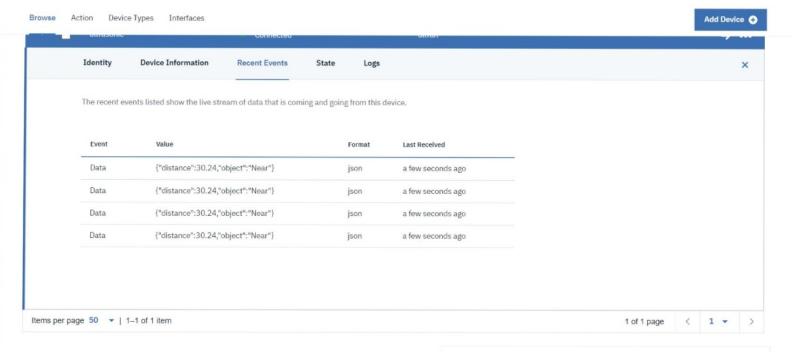
serial.println("object is near");
object="Near";
}

String payload = "\"object found");
object="Near";
}

Serial.println("no object found");
object="Near";
payload = "\"object\":\";
payload = "\"object\":\"sear\")
Serial.println(payload);
```







0 Simulations running