

## Assignment – 4 (ESP32 programming in Wokwi)

Assignment Date	17 October 2022
Student Name	S. SASIREKHA
Student Roll Number	212619106004
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 recent events.

Upload document with Wokwi share link and images of IBM cloud.

**Wokwi Link :**

<https://wokwi.com/projects/346653358281458259>

### OUTPUT (IBM screenshots):

The screenshot shows the IBM Watson IoT Platform interface. At the top, the user is logged in as '212619106004@smartinternz.com'. The main navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons for device management. The main content area displays a table of devices. The first device, '12345678', is highlighted and its details are shown in a modal window. The 'Recent Events' tab is active, showing a list of events with columns for Event, Value, Format, and Last Received. The events show status updates and distance measurements (e.g., 257.2, 257.22, 134.16, 403.45, 403.49) in JSON format, all received 'a few seconds ago'.

Event	Value	Format	Last Received
status	{\"d\":{\"Name\":\"12345678\",\"safe \":257.2}}	json	a few seconds ago
status	{\"d\":{\"Name\":\"12345678\",\"safe \":257.22}}	json	a few seconds ago
status	{\"d\":{\"Name\":\"12345678\",\"safe \":134.16}}	json	a few seconds ago
status	{\"d\":{\"Name\":\"12345678\",\"safe \":403.45}}	json	a few seconds ago
status	{\"d\":{\"Name\":\"12345678\",\"safe \":403.49}}	json	a few seconds ago

IBM Watson IoT Platform

21.2619106004@smartinternz.com

ID: n9g3h

Browse

Action

Device Types

Interfaces

Add Device

criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By
	12345678	Connected	raspberry	Device	Oct 19, 2022 4:39 AM		212619106004@smartinternz.com

Identity

Device Information

Recent Events

State

Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"d":{"Name":"12345678"},"Alert":37.28}}	json	a few seconds ago
status	{"d":{"Name":"12345678"},"safe ":259.22}}	json	a few seconds ago
status	{"d":{"Name":"12345678"},"safe ":259.22}}	json	a few seconds ago
status	{"d":{"Name":"12345678"},"Alert":39.48}}	json	a few seconds ago
status	{"d":{"Name":"12345678"},"Alert":34.28}}	json	a few seconds ago

Assignment 4.zip

Assignment 4.zip

Assignment 4.zip

Show all

Event	Value	Format	Last Received
status	{"d":{"Name":"12345678","safe ":257.2}}	json	a few seconds ago
status	{"d":{"Name":"12345678","safe ":257.22}}	json	a few seconds ago
status	{"d":{"Name":"12345678","safe ":134.16}}	json	a few seconds ago
status	{"d":{"Name":"12345678","safe ":403.45}}	json	a few seconds ago
status	{"d":{"Name":"12345678","safe ":403.49}}	json	a few seconds ago

Event	Value	Format	Last Received
status	{"d":{"Name":"12345678","Alert":37.28}}	json	a few seconds ago
status	{"d":{"Name":"12345678","safe ":259.22}}	json	a few seconds ago
status	{"d":{"Name":"12345678","safe ":259.22}}	json	a few seconds ago
status	{"d":{"Name":"12345678","Alert":39.48}}	json	a few seconds ago
status	{"d":{"Name":"12345678","Alert":34.28}}	json	a few seconds ago