

Assignment – 4
(ESP32 programming in Wokwi)

Assignment Date	17 October 2022
Student Name	S. BHARATHI
Student Roll Number	212619106001
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/346412852768146004>

OUTPUT (IBM screenshots):

The screenshot displays the IBM Watson IoT Platform interface. At the top, the header shows 'IBM Watson IoT Platform' and a user profile for '212619106001@smartinternz.com' with ID 'zf801i'. The main navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various functions. The main content area shows a list of devices, with 'bharathi123' selected and marked as 'Connected'. Below the device list, the 'Recent Events' tab is active, displaying a table of events. The table has columns for 'Event', 'Value', 'Format', and 'Last Received'. The events show alternating 'Alert' and 'safe' status updates with numerical values.

Event	Value	Format	Last Received
status	{"d":{"Name":"bharathi123","Alert":16.1}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","safe ":103.86}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","Alert":53.46}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","safe ":295.53}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","safe ":295.55}}	json	a minute ago

IBM Watson IoT Platform

212619106001@smartinternz.com
ID: zf801i

Browse

Action

Device Types

Interfaces

Add Device +

Device ID	Status	Device Type	Class ID	Date Added
bharathi123	Connected	bharathi	Device	Oct 26, 2022 12:56 AM

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":"bharathi123","safe ":295.53}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","safe ":295.55}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","Alert":36.31}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","Alert":57.49}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","safe ":168.45}}	json	a minute ago

Event	Value	Format	Last Received
status	{"d":{"Name":"bharathi123","safe ":295.53}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","safe ":295.55}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","Alert":36.31}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","Alert":57.49}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","safe ":168.45}}	json	a minute ago

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status	{"d":{"Name":"bharathi123","safe ":295.53}}	json	a few seconds ago
status	{"d":{"Name":"bharathi123","safe ":295.55}}	json	a minute ago