

Assignment – 4

(ESP32 programming in Wokwi)

Date	17 October 2022
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Project Name	PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELIANT USING IoT TECHNOLOGY
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/346867540759151186>

OUTPUT(IBM Screenshots):

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various functions. The main content area displays a table of devices, with one device named 'sunitha' selected. Below the device list, there are tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, showing a list of events with columns for 'Event', 'Value', 'Format', and 'Last Received'. The events are JSON objects representing sensor data and alerts.

Event	Value	Format	Last Received
status	{"d":{"Name":"sunitha","Alert":3.41}}	json	a few seconds ago
status	{"d":{"Name":"sunitha","safe":136.15}}	json	a few seconds ago
status	{"d":{"Name":"sunitha","safe":256.19}}	json	a few seconds ago
status	{"d":{"Name":"sunitha","Alert":11.04}}	json	a few seconds ago
status	{"d":{"Name":"sunitha","safe":162.39}}	json	a few seconds ago

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
▼	<input type="checkbox"/> sunitha	Disconnected	sunitha	Device	Oct 29, 2022 8:36 PM	→ ...
IdentityDevice InformationRecent EventsStateLogs×						
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":"sunitha","Alert":3.41}}	json	a few seconds ago			
status	{%d:{"Name":"sunitha","safe ":136.15}}	json	a few seconds ago			
status	{%d:{"Name":"sunitha","safe ":256.19}}	json	a few seconds ago			
status	{%d:{"Name":"sunitha","Alert":11.04}}	json	a few seconds ago			
status	{%d:{"Name":"sunitha","safe ":162.39}}	json	a few seconds ago			