

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/346593750487663187>

OUTPUT(IBM Screenshots):

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area displays a table of devices. The selected device is '18102001', which is 'Disconnected' and of type 'raspberrypi'. The 'Recent Events' tab is active, showing a list of events. The events table has columns for 'Event', 'Value', 'Format', and 'Last Received'.

Event	Value	Format	Last Received
status	{"d":{"Name":"18102001","Alert":71.62}}	json	a few seconds ago
status	{"d":{"Name":"18102001","safe":136.15}}	json	a few seconds ago
status	{"d":{"Name":"18102001","safe":301.62}}	json	a few seconds ago
status	{"d":{"Name":"18102001","Alert":2.01}}	json	a few seconds ago
status	{"d":{"Name":"18102001","safe":403.51}}	json	a few seconds ago

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":"18102001","Alert":71.62}}	json	a few seconds ago
status	{"d":{"Name":"18102001","safe":136.15}}	json	a few seconds ago
status	{"d":{"Name":"18102001","safe":301.62}}	json	a few seconds ago
status	{"d":{"Name":"18102001","Alert":2.01}}	json	a few seconds ago
status	{"d":{"Name":"18102001","safe":403.51}}	json	a few seconds ago