

## Assignment -4

### Wokwi and IBM cloud connection

Assignment Date	17 October 2022
Student Name	Mugila R
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Maximum Marks	2 Marks

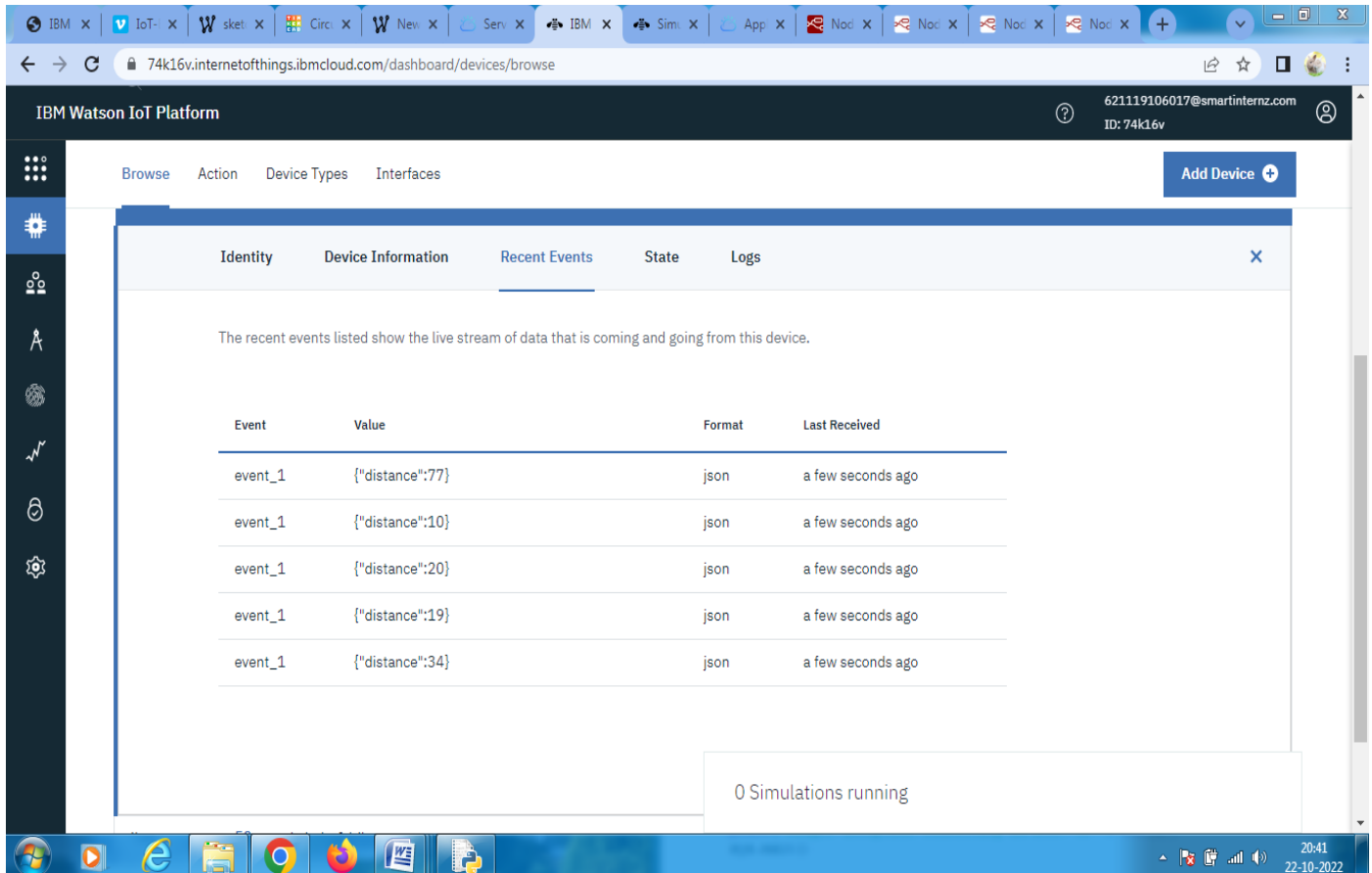
#### Question-1:

Write code and connections in wokwi for ultrasonic sensor. Whenever distance is less than 100cms send "alert" to IBM cloud and display in device recent events (Upload document with wokwi share link and images of IBM cloud).

#### Solution:

Wokwi link: <https://wokwi.com/projects/346232206332527188>

IBM cloud image:



The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for Browse, Action, Device Types, and Interfaces. A sidebar on the left contains icons for various IoT functions. The main content area shows the 'Recent Events' tab for a specific device. Below the tab, a message states: 'The recent events listed show the live stream of data that is coming and going from this device.' A table lists five recent events, each with an 'Event' name, a 'Value' in JSON format, a 'Format' of 'json', and a 'Last Received' timestamp of 'a few seconds ago'. The events are labeled 'event\_1' and contain distance data: {"distance":77}, {"distance":10}, {"distance":20}, {"distance":19}, and {"distance":34}. At the bottom right, a status box indicates '0 Simulations running'. The browser's address bar shows the URL '74k16v.internetofthings.ibmcloud.com/dashboard/devices/browse'. The system tray at the bottom of the screen shows the date and time as '20:41 22-10-2022'.

Event	Value	Format	Last Received
event_1	{"distance":77}	json	a few seconds ago
event_1	{"distance":10}	json	a few seconds ago
event_1	{"distance":20}	json	a few seconds ago
event_1	{"distance":19}	json	a few seconds ago
event_1	{"distance":34}	json	a few seconds ago