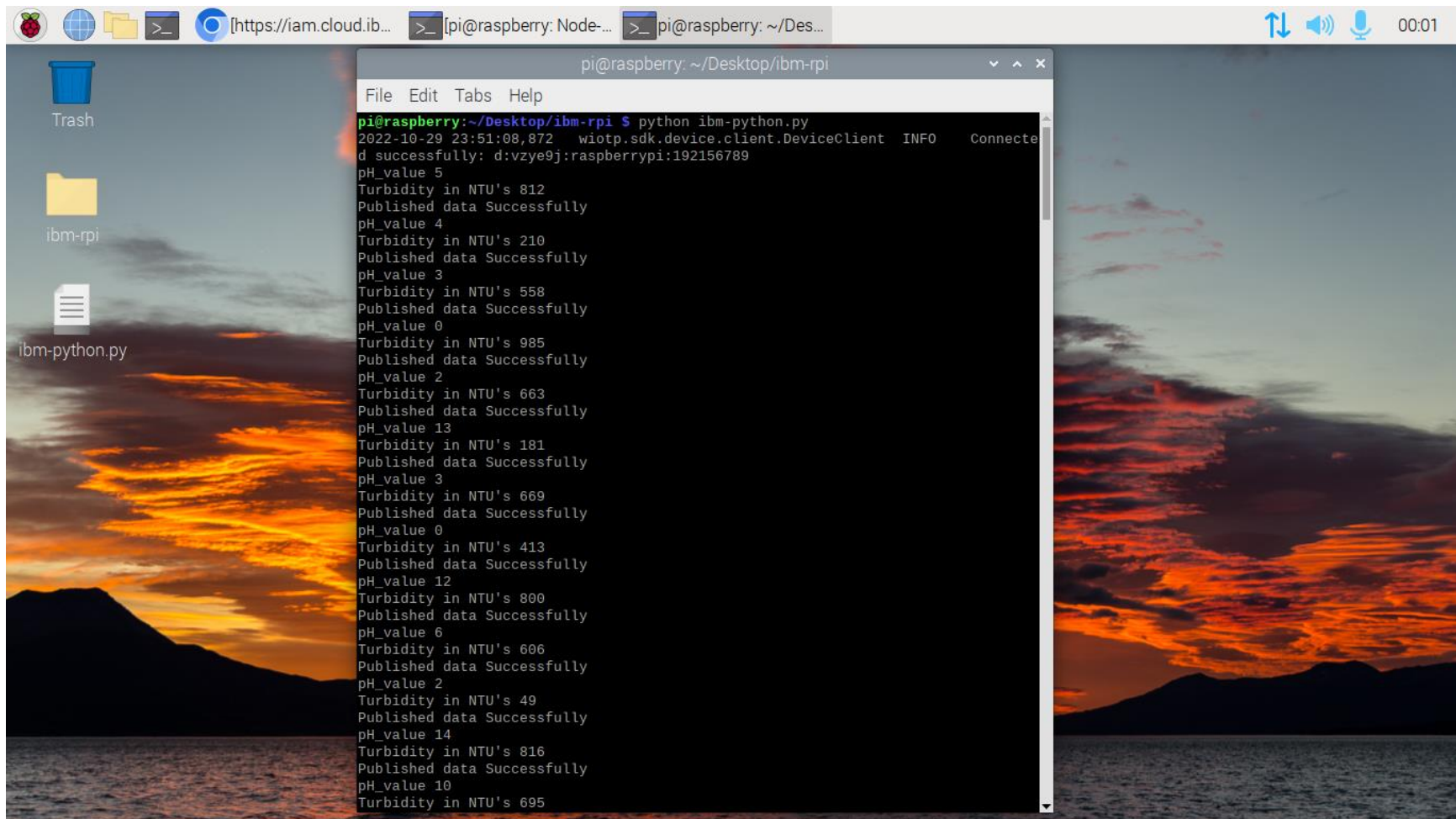


Develop A Web Application Using Node-Red Services

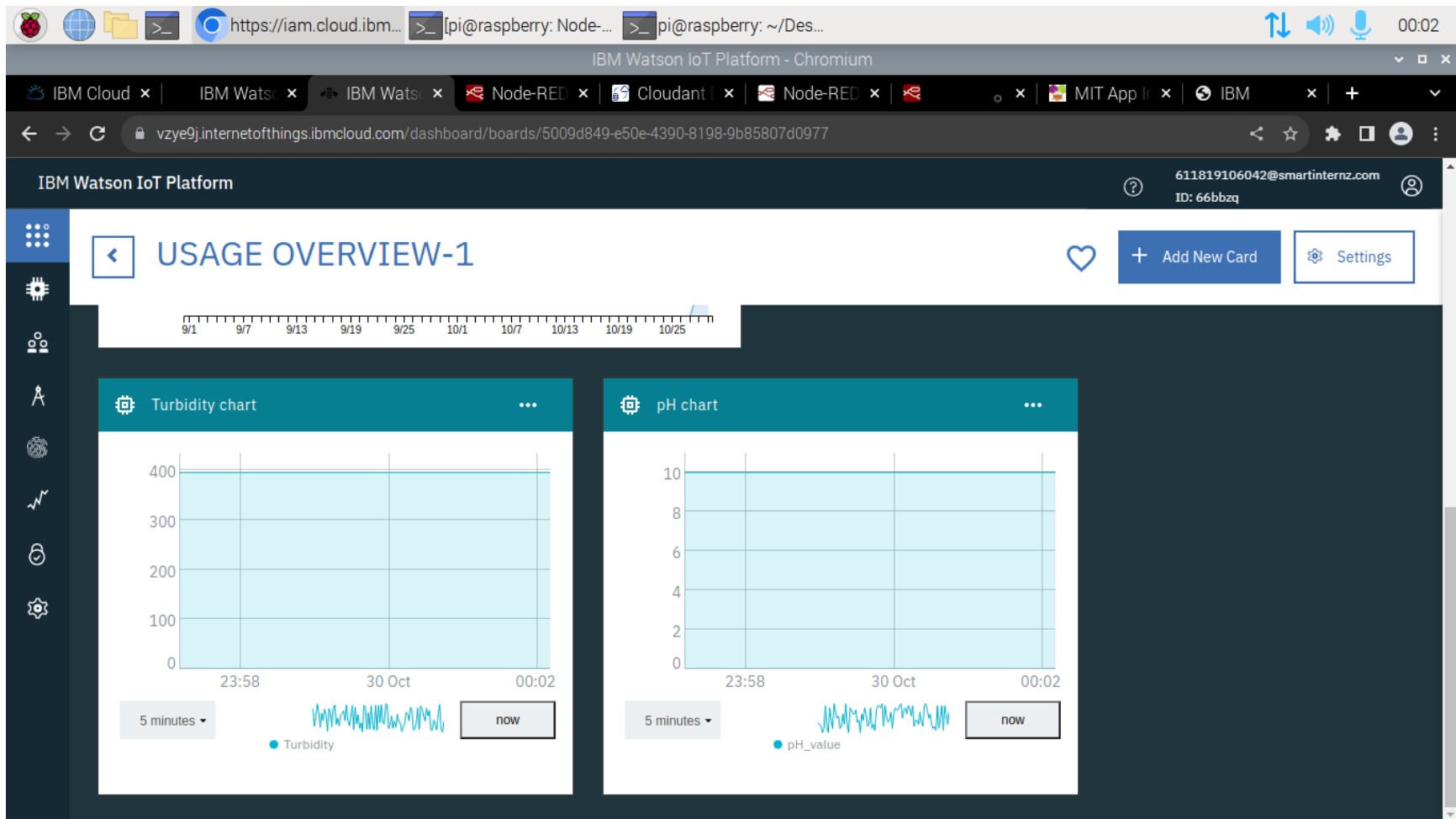
Create An HTTP Requests To Communicate With Mobile App

DATE	15 Nov. 22
TEAM ID	PNT2022TMID40953
PROJECT NAME	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
MAXIMM MARK	4 MARKS
DATE	15 Nov. 22



The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes the IBM logo and the text "IBM Watson IoT Platform". Below this, a sidebar on the left contains icons for various functions. The main content area shows a table of events for a specific device. The table has four columns: "Event", "Value", "Format", and "Last Received". The events listed are all "data" type, with values representing pH and Turbidity measurements. The "Format" column shows "json" for all events, and the "Last Received" column indicates they were received "a few seconds ago".

Event	Value	Format	Last Received
data	{"pH_value":10,"Turbidity":395}	json	a few seconds ago
data	{"pH_value":4,"Turbidity":20}	json	a few seconds ago
data	{"pH_value":9,"Turbidity":123}	json	a few seconds ago
data	{"pH_value":13,"Turbidity":959}	json	a few seconds ago
data	{"pH_value":1,"Turbidity":655}	json	a few seconds ago



Node-RED interface running in a Chromium browser window. The browser tabs include IBM Cloud, IBM Watson, Node-RED, Cloudant, and MIT App Inventor. The address bar shows a URL: `https://iam.cloud.ibm.com/.../1880/#flow/5d23ce68fb9bf675`.

The Node-RED workspace displays a flow with the following nodes:

- cloudant-db** (selected tab)
- node-dashboard** (selected tab)
- button-control-ibm** (selected tab)

The flow consists of the following nodes and connections:

- inject** node connected to **debug** node.
- complete** node connected to **catch** node.
- status** node connected to **link in** node.
- link in** node connected to **link call** node.
- link call** node connected to **link out** node.
- comment** node.
- function** node.
- IBM IoT** node (connected).
- Turbidity** node (function) connected to **Turbidity** node (output).
- pH_value** node (function) connected to **pH** node (output).
- [get] /data** node connected to **web page data** node (function) connected to **http** node (output).

The **debug** console shows the following log entries:

```
20
10/29/2022, 11:54:38 PM node: debug 2
iot-2/type/raspberrypi/id/192156789/evt/data/fmt/json :
msg.payload : number
4
10/29/2022, 11:54:38 PM node: debug 2
iot-2/type/raspberrypi/id/192156789/evt/data/fmt/json :
msg.payload : Object
{ pH_value: 10, Turbidity: 395 }
10/29/2022, 11:54:38 PM node: debug 2
iot-2/type/raspberrypi/id/192156789/evt/data/fmt/json :
msg.payload : number
395
10/29/2022, 11:54:38 PM node: debug 2
iot-2/type/raspberrypi/id/192156789/evt/data/fmt/json :
msg.payload : number
10
10/29/2022, 11:54:38 PM node: debug 1
iot-2/type/raspberrypi/id/192156789/evt/data/fmt/json :
msg.payload : Object
{ pH_value: 10, Turbidity: 395 }
```

