Assignment – 3

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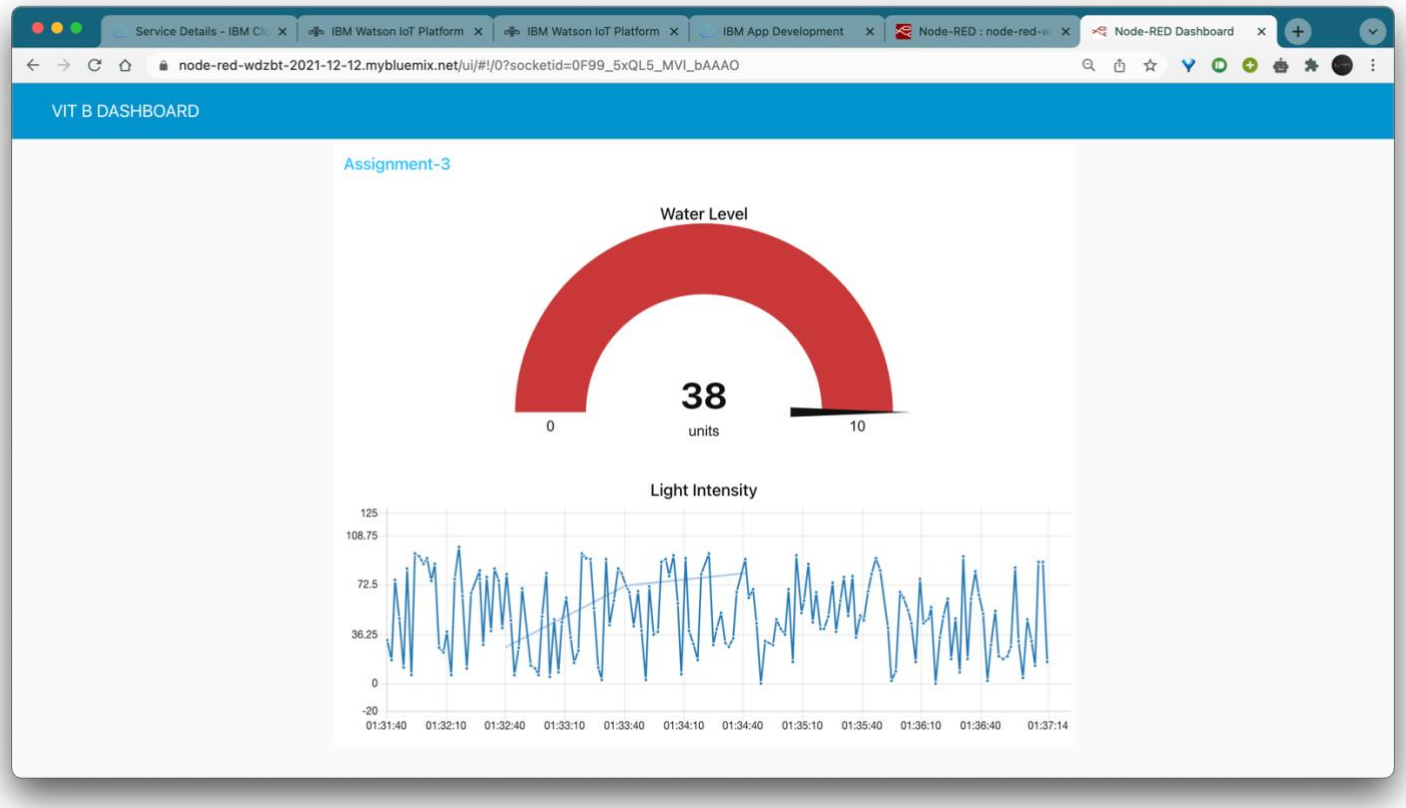
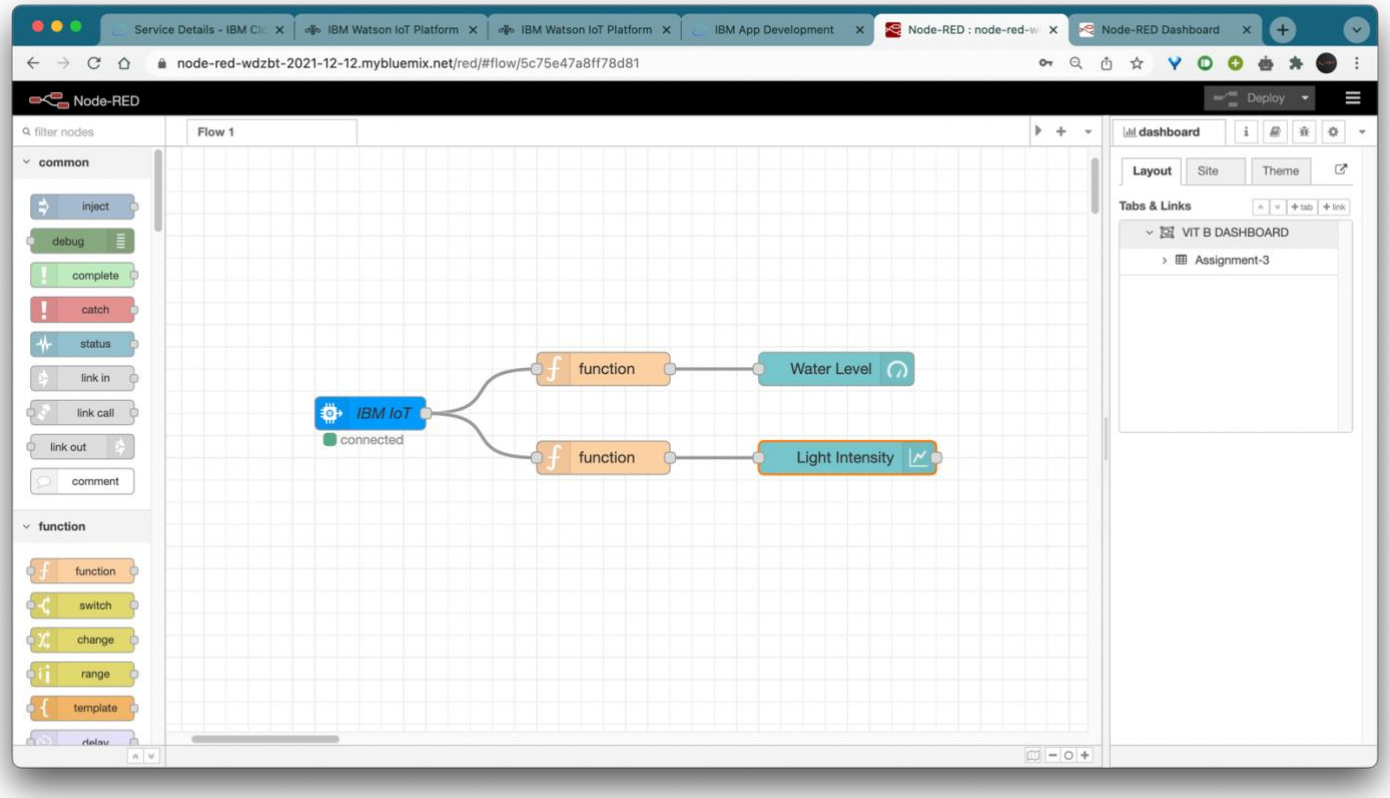
Q. Develop a code to upload the water tank level and light intensity values to the IBM IoT platform and visualize them in the web application.

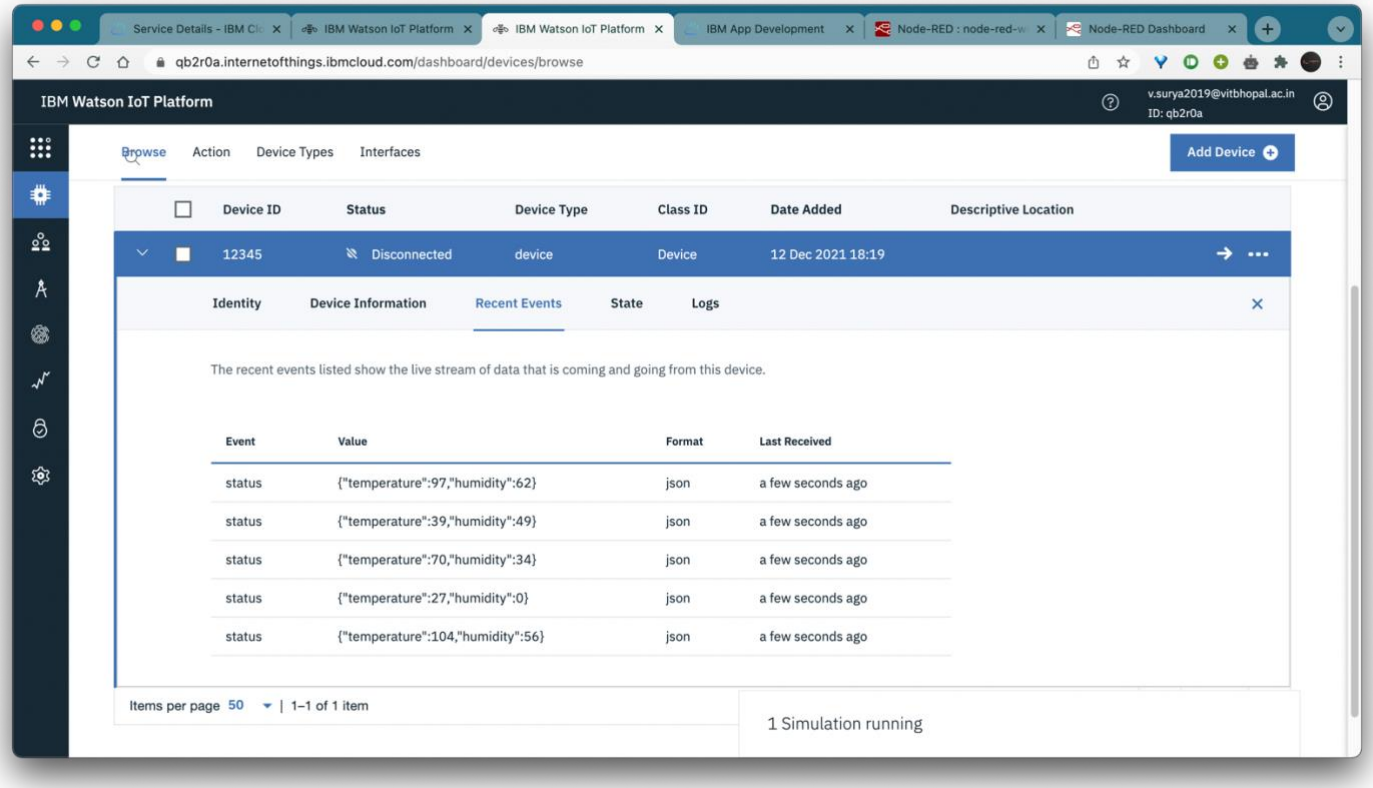
Output Diagram:



Node-Red Diagram:



Device Events:



Python Code:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "qb2r0a",
        "typeId": "device",
        "deviceId":"12345"
    },
    "auth": {
        "token": "wehdo6-tubhuq-gUxgih"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```