Assignment 3

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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.

Python code:

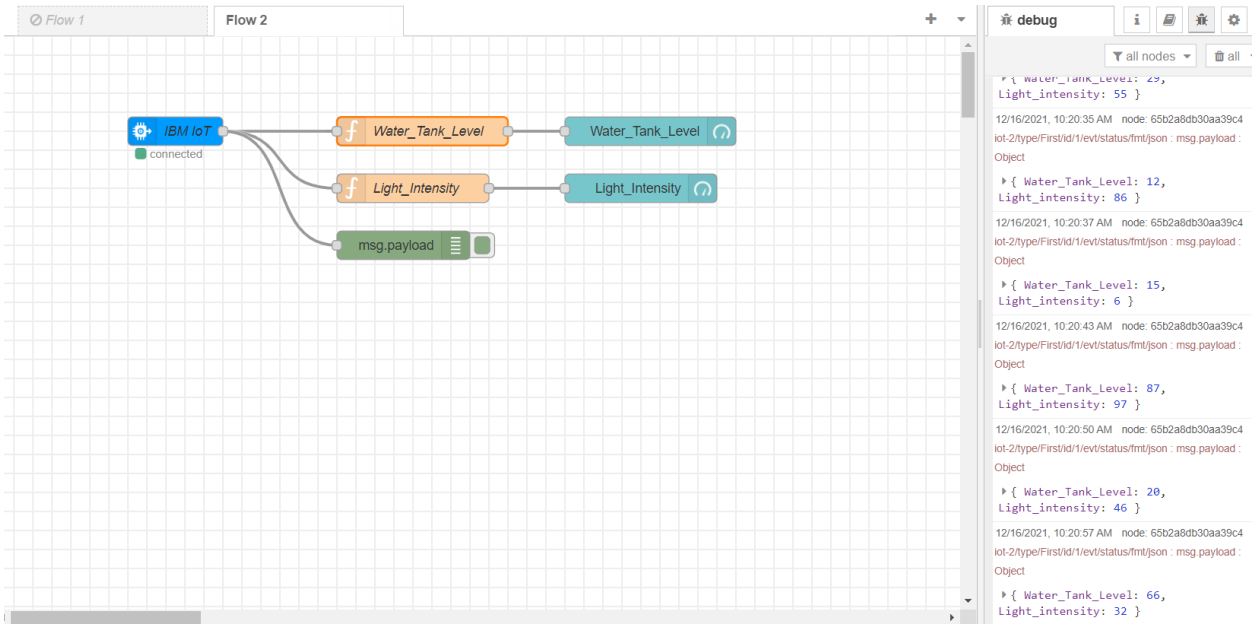
```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "w7dw6y",
        "typeId": "First",
        "deviceId":"1"
    },
    "auth": {
        "token": "12345678"
    }
}

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

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

while True:
    wtl=random.randint(0,100)
    li=random.randint(0,100)
    myData={ 'Water_Tank_Level':wtl, 'Light_intensity':li}
    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()
```

Node-RED Flow Diagram:



Web Implementation: