

ASSIGNMENT 3

- 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": "ihmmqz",
        "typeId": "MACDevice",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}

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:
    level=random.randint(0,50)
```

```
intensity=random.randint(0,1000)

myData={'Water_Level':level, 'Light_Intensity':intensity}

client.publishEvent(eventId="status", msgFormat="json",
data=myData, qos=0, onPublish=None)

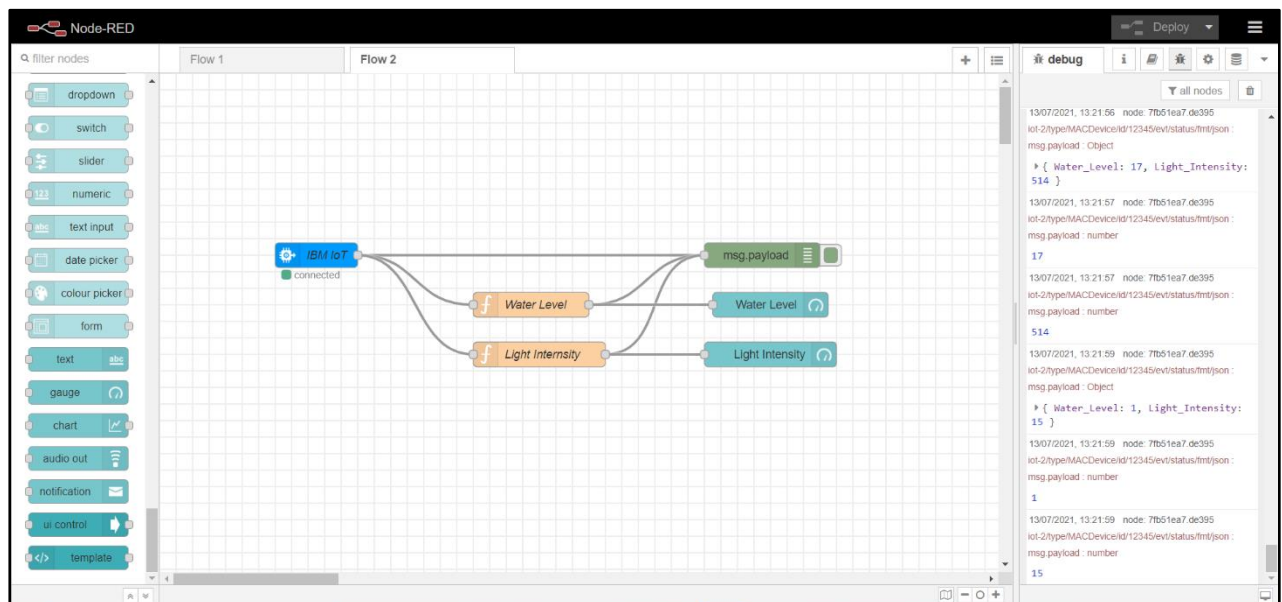
print("Published data Successfully: %s", myData)

client.commandCallback = myCommandCallback

time.sleep(2)

client.disconnect()
```

Flowchart



Readings

