

ASSIGNMENT-3

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

CODE:

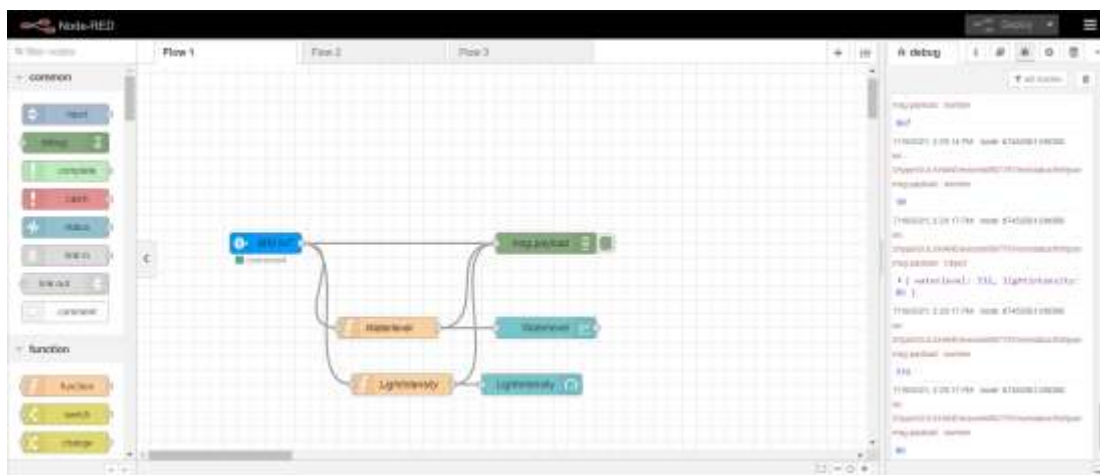
```
Assignment3py - C:\Users\gult\Downloads\assignment3py (3.9%)
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "g00khu",
        "typeId": "GULSHRANDevice",
        "deviceId": "667797"
    },
    "auth": {
        "token": "86779700"
    }
}
}

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(0,500)
    light=random.randint(0,100)
    myData={'waterlevel':level, 'lightintensity':light}
    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 OUTPUT:

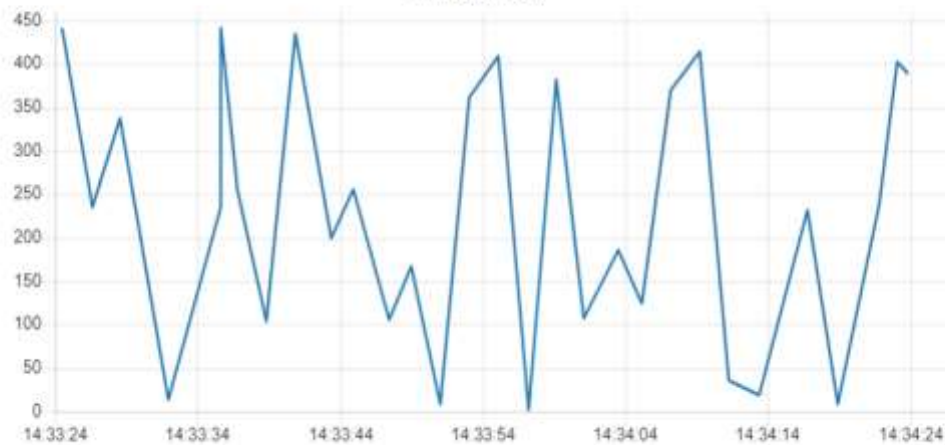


```
Published data Successfully: %s ('waterlevel': 310, 'lightintensity': 70)
Published data Successfully: %s ('waterlevel': 253, 'lightintensity': 20)
Published data Successfully: %s ('waterlevel': 298, 'lightintensity': 64)
Published data Successfully: %s ('waterlevel': 263, 'lightintensity': 81)
Published data Successfully: %s ('waterlevel': 337, 'lightintensity': 84)
Published data Successfully: %s ('waterlevel': 340, 'lightintensity': 72)
Published data Successfully: %s ('waterlevel': 206, 'lightintensity': 3)
Published data Successfully: %s ('waterlevel': 317, 'lightintensity': 35)
Published data Successfully: %s ('waterlevel': 390, 'lightintensity': 62)
Published data Successfully: %s ('waterlevel': 234, 'lightintensity': 31)
Published data Successfully: %s ('waterlevel': 201, 'lightintensity': 84)
Published data Successfully: %s ('waterlevel': 442, 'lightintensity': 39)
Published data Successfully: %s ('waterlevel': 442, 'lightintensity': 27)
Published data Successfully: %s ('waterlevel': 117, 'lightintensity': 81)
Published data Successfully: %s ('waterlevel': 65, 'lightintensity': 2)
Published data Successfully: %s ('waterlevel': 303, 'lightintensity': 31)
Published data Successfully: %s ('waterlevel': 126, 'lightintensity': 43)
Published data Successfully: %s ('waterlevel': 410, 'lightintensity': 62)
Published data Successfully: %s ('waterlevel': 384, 'lightintensity': 20)
Published data Successfully: %s ('waterlevel': 452, 'lightintensity': 90)
Published data Successfully: %s ('waterlevel': 491, 'lightintensity': 20)
Published data Successfully: %s ('waterlevel': 133, 'lightintensity': 98)
Published data Successfully: %s ('waterlevel': 490, 'lightintensity': 57)
Published data Successfully: %s ('waterlevel': 269, 'lightintensity': 3)
Published data Successfully: %s ('waterlevel': 406, 'lightintensity': 22)
Published data Successfully: %s ('waterlevel': 489, 'lightintensity': 20)
Published data Successfully: %s ('waterlevel': 40, 'lightintensity': 91)
Published data Successfully: %s ('waterlevel': 51, 'lightintensity': 46)
Published data Successfully: %s ('waterlevel': 307, 'lightintensity': 37)
Published data Successfully: %s ('waterlevel': 180, 'lightintensity': 98)
Published data Successfully: %s ('waterlevel': 426, 'lightintensity': 69)
Published data Successfully: %s ('waterlevel': 442, 'lightintensity': 58)
Published data Successfully: %s ('waterlevel': 479, 'lightintensity': 67)
Published data Successfully: %s ('waterlevel': 149, 'lightintensity': 100)
Published data Successfully: %s ('waterlevel': 42, 'lightintensity': 70)
Published data Successfully: %s ('waterlevel': 231, 'lightintensity': 32)
Published data Successfully: %s ('waterlevel': 56, 'lightintensity': 11)
Published data Successfully: %s ('waterlevel': 355, 'lightintensity': 39)
Published data Successfully: %s ('waterlevel': 307, 'lightintensity': 54)
```

Ln 47, Col: 0

Sensor Data

Waterlevel



Lightintensity

