

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.

#### CODE:

```
import wiotp.sdk.device
```

```
import time
```

```
import random
```

```
myConfig = {
```

```
    "identity": {
```

```
        "orgId": "glif1g",
```

```
        "typeId": "sarahdevice",
```

```
        "deviceId": "060801"
```

```
    },
```

```
    "auth": {
```

```
        "token": "06082001"
```

```
    }
```

```
}
```

```
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:

```
tanklev=random.randint(0,200)
```

```
liv=random.randint(50,200)
```

```
myData={'watertanklevel':tanklev, 'lightintensityvalues':liv}
```

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

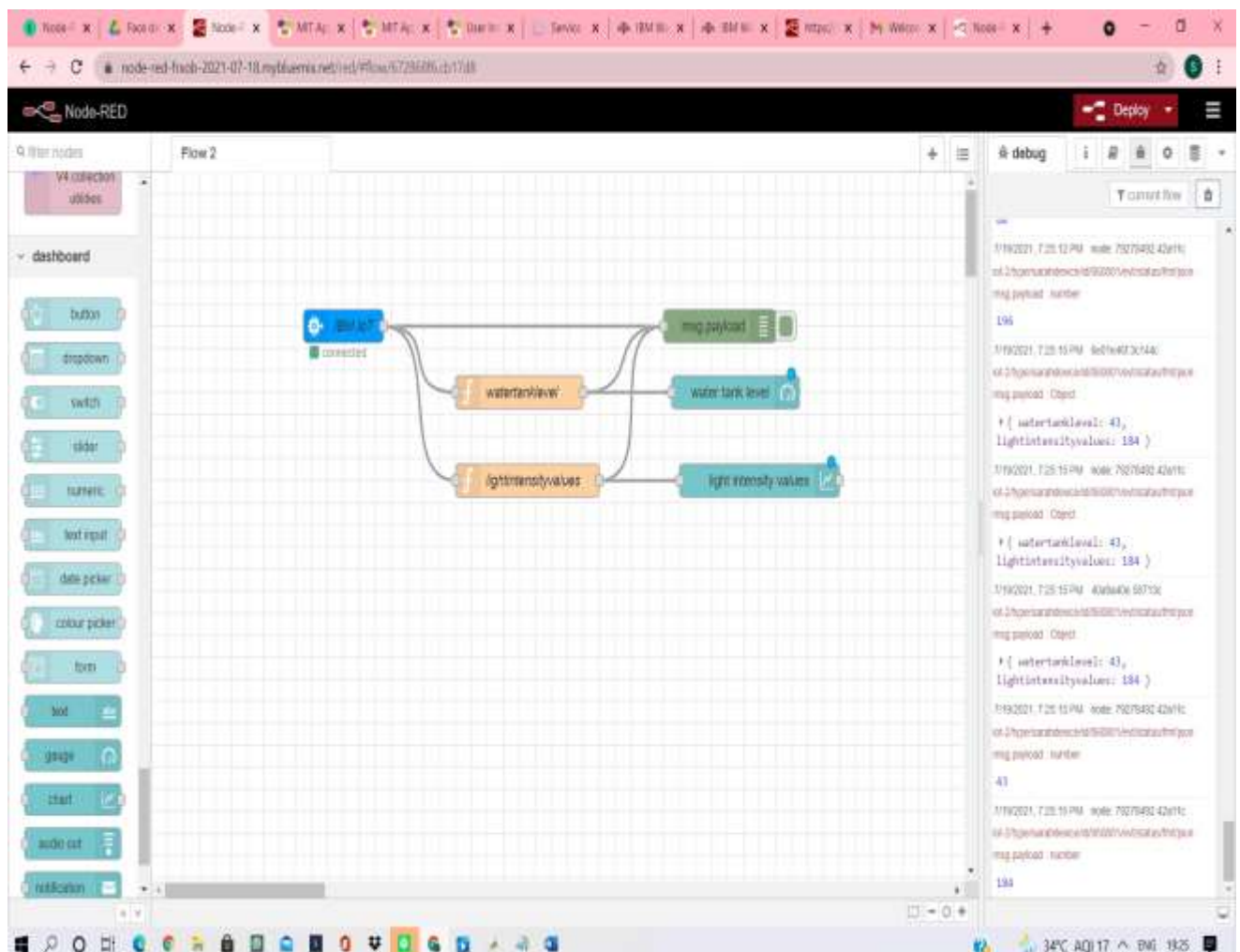
```
print("Published data Successfully: %s", myData)
```

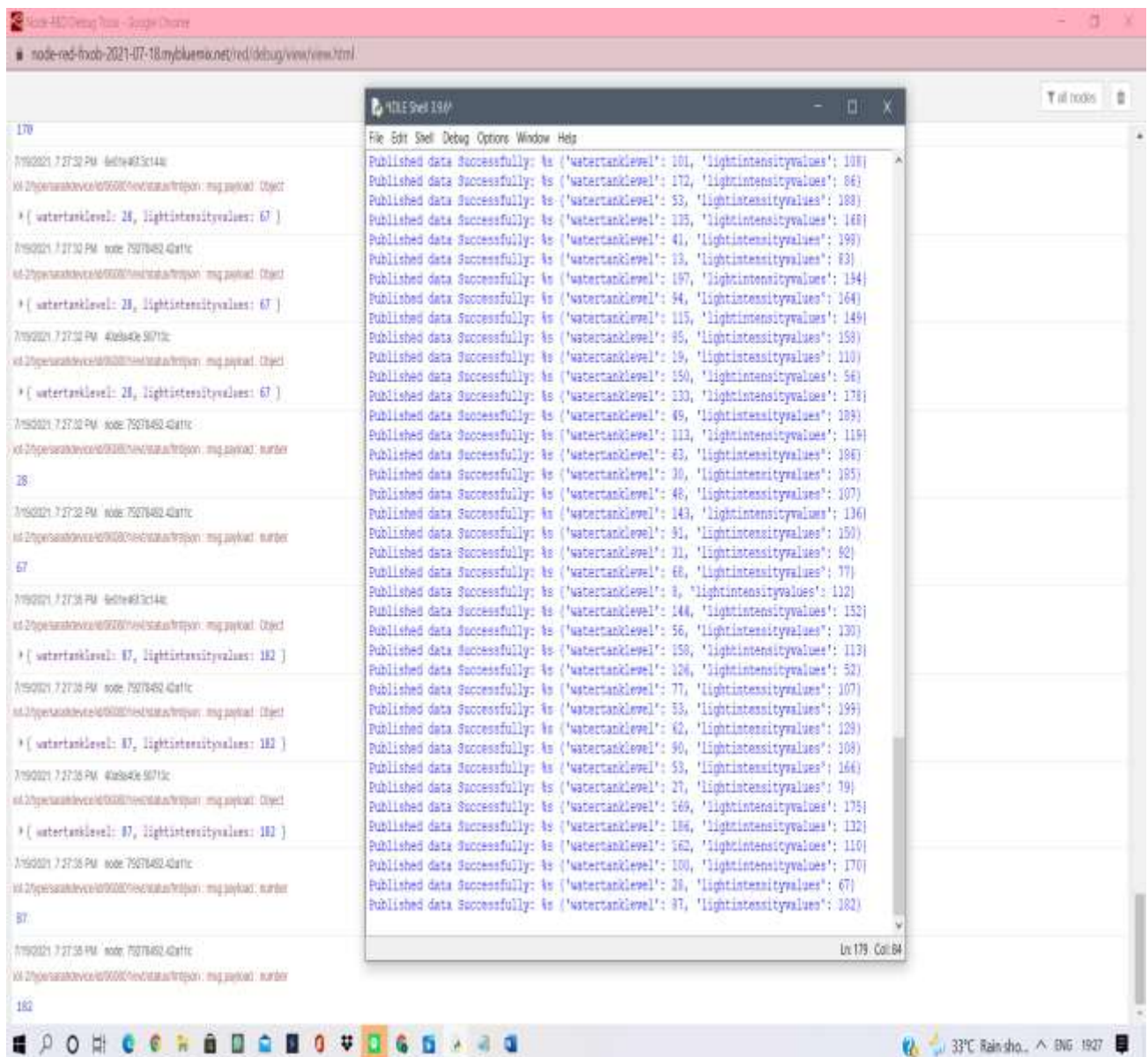
```
client.commandCallback = myCommandCallback
```

```
time.sleep(3)
```

```
client.disconnect()
```

Node red:





## SIMULATION:

