Assignment 3

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Registration number: 19BEC0549

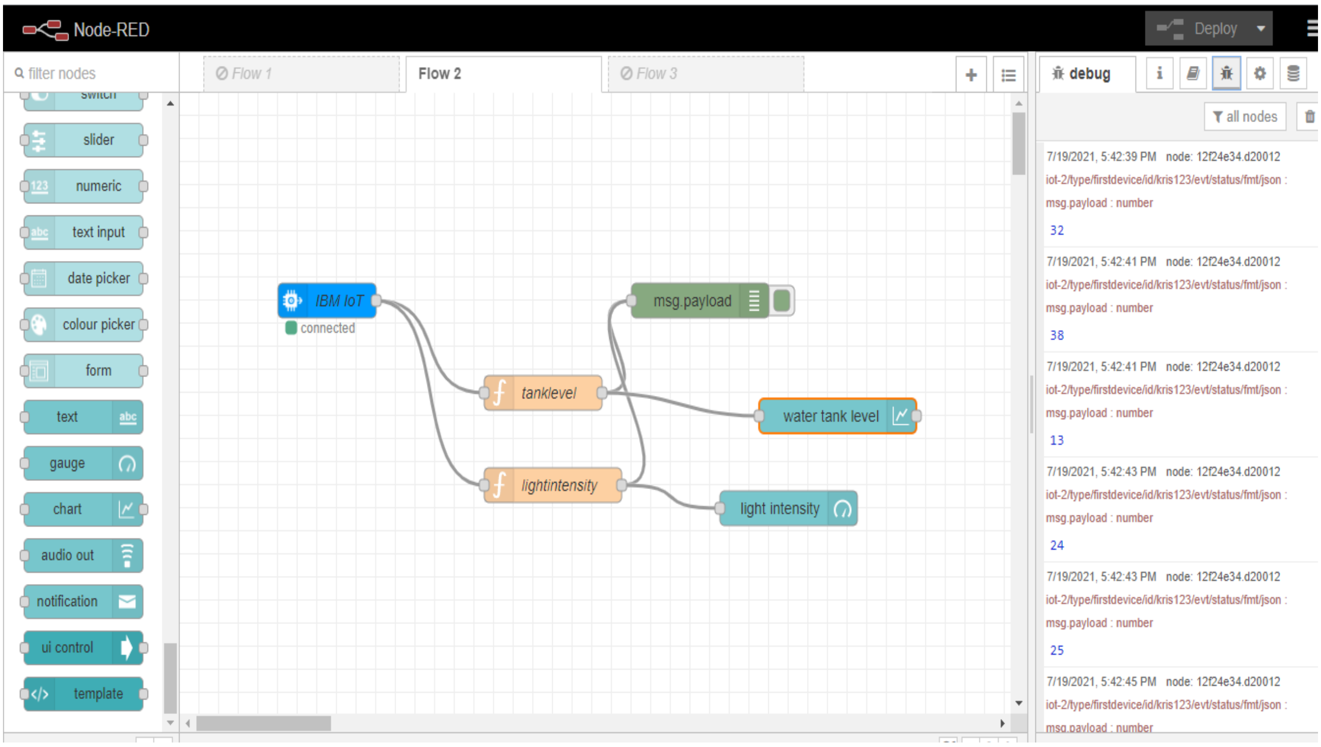
Develop a code to upload the water tank level and light intensity values to the IBM IoT platform and visualize them in the web application.

PYTHON CODE

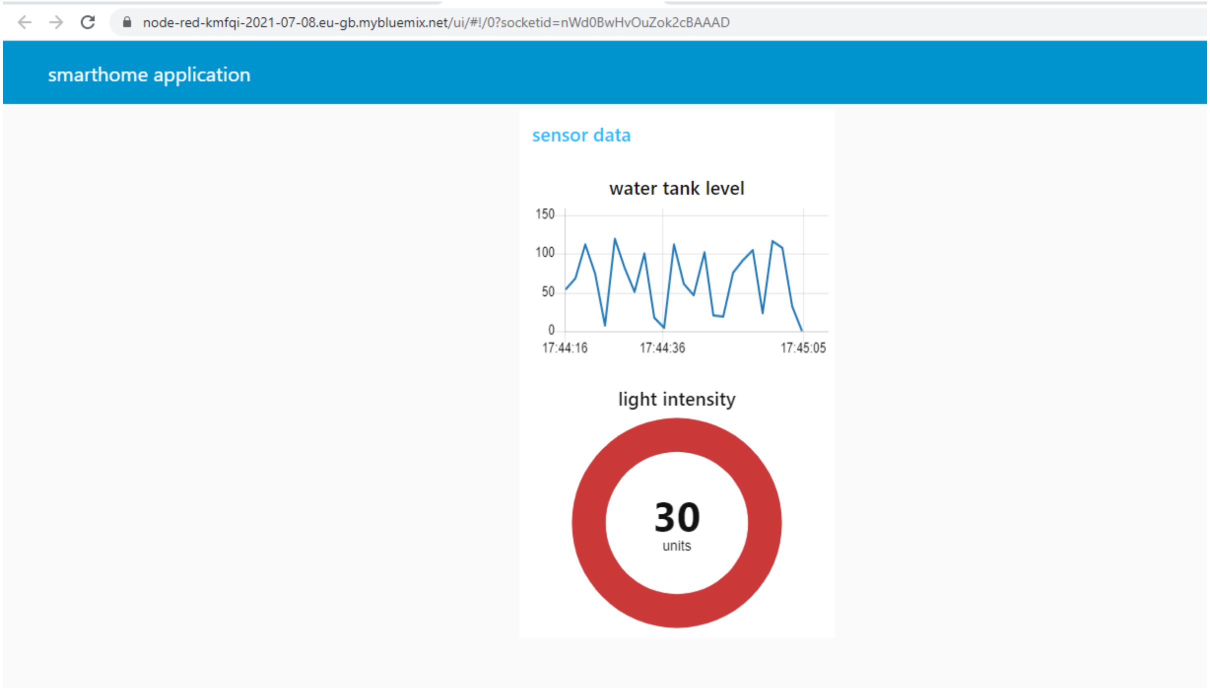
```
import wiotp.sdk.device

import time

import random

myConfig = {

  "identity": {

    "orgId": "cp3p3y",

    "typeId": "firstdevice",

    "deviceId":"kris123"

  },

  "auth": {

    "token": "12345678"

  }

}


def myCommandCallback(cmd):

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

  m=cmd.data['command']
```

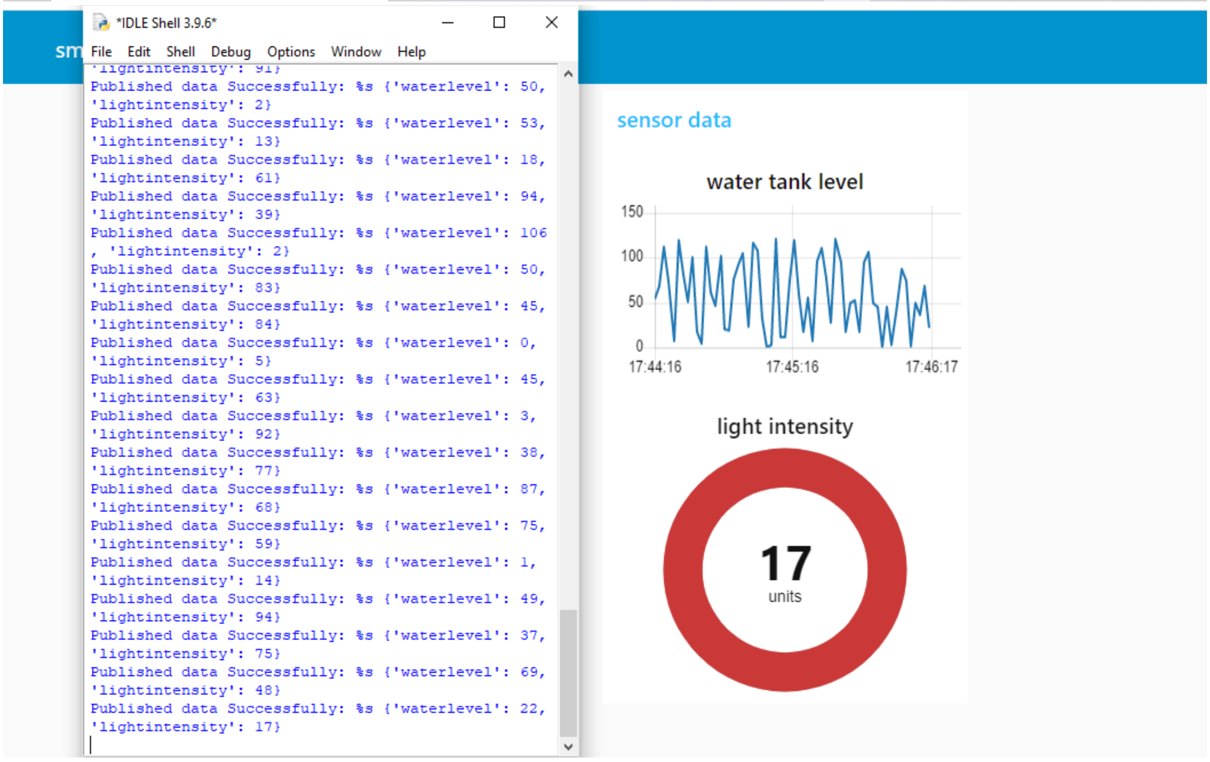
```
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()


while True:
    tanklevel=random.randint(0,125)
    lightint=random.randint(0,100)
    myData={'waterlevel':tanklevel, 'lightintensity':lightint}
    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()
```

SCREENSHOTS

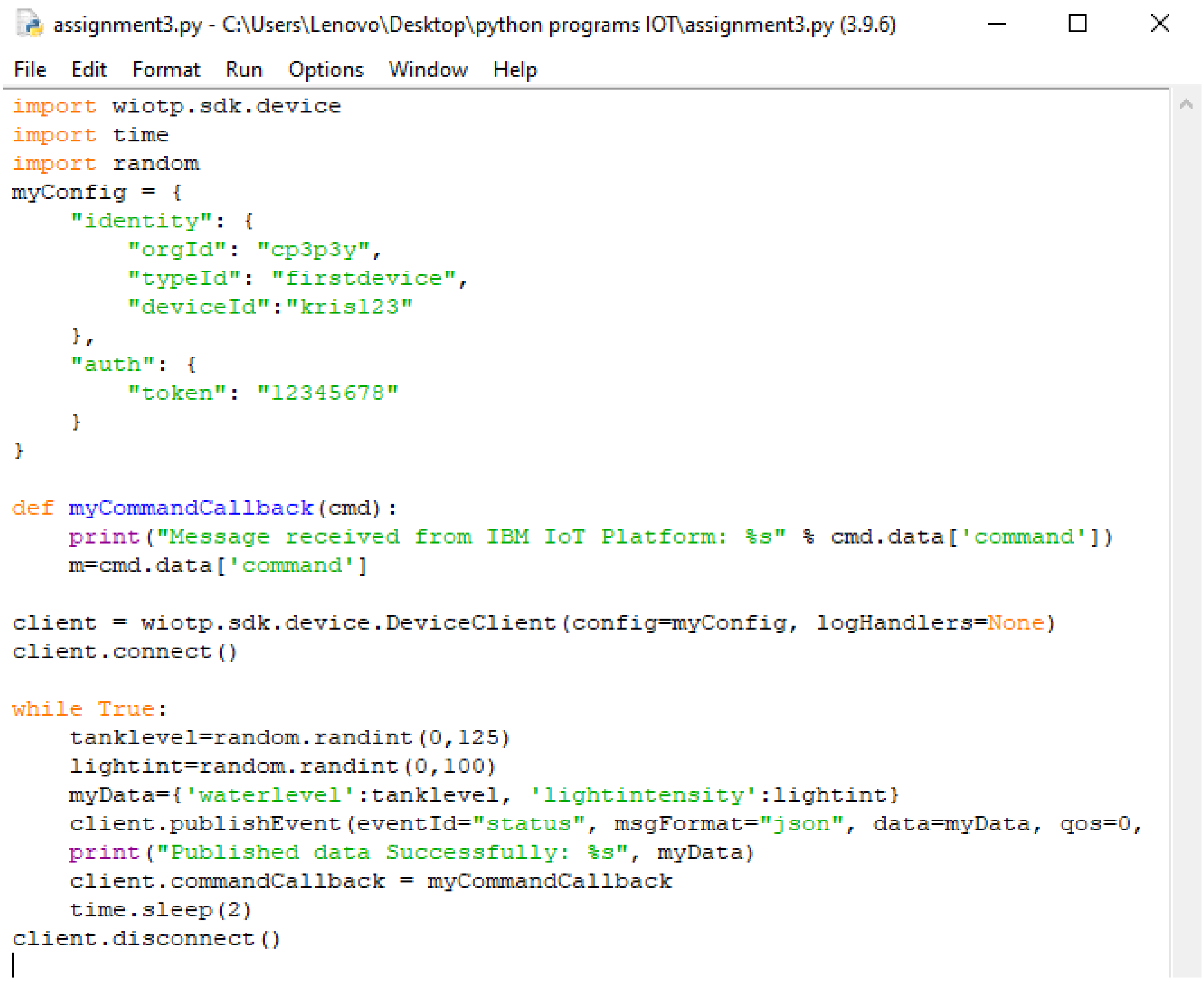


```
7/19/2021, 5:42:39 PM   node: 12f24e34.d20012
iot-2/type/firstdevice/id/kris123/evt/status/fmt/json :
msg.payload : number
32
7/19/2021, 5:42:41 PM   node: 12f24e34.d20012
iot-2/type/firstdevice/id/kris123/evt/status/fmt/json :
msg.payload : number
38
7/19/2021, 5:42:41 PM   node: 12f24e34.d20012
iot-2/type/firstdevice/id/kris123/evt/status/fmt/json :
msg.payload : number
13
7/19/2021, 5:42:43 PM   node: 12f24e34.d20012
iot-2/type/firstdevice/id/kris123/evt/status/fmt/json :
msg.payload : number
24
7/19/2021, 5:42:43 PM   node: 12f24e34.d20012
iot-2/type/firstdevice/id/kris123/evt/status/fmt/json :
msg.payload : number
25
7/19/2021, 5:42:45 PM   node: 12f24e34.d20012
iot-2/type/firstdevice/id/kris123/evt/status/fmt/json :
msg.payload : number
```





```
'lightintensity': 91}
Published data Successfully: %s {'waterlevel': 50,
'lightintensity': 2}
Published data Successfully: %s {'waterlevel': 53,
'lightintensity': 13}
Published data Successfully: %s {'waterlevel': 18,
'lightintensity': 61}
Published data Successfully: %s {'waterlevel': 94,
'lightintensity': 39}
Published data Successfully: %s {'waterlevel': 106
, 'lightintensity': 2}
Published data Successfully: %s {'waterlevel': 50,
'lightintensity': 83}
Published data Successfully: %s {'waterlevel': 45,
'lightintensity': 84}
Published data Successfully: %s {'waterlevel': 0,
'lightintensity': 5}
Published data Successfully: %s {'waterlevel': 45,
'lightintensity': 63}
Published data Successfully: %s {'waterlevel': 3,
'lightintensity': 92}
Published data Successfully: %s {'waterlevel': 38,
'lightintensity': 77}
Published data Successfully: %s {'waterlevel': 87,
'lightintensity': 68}
Published data Successfully: %s {'waterlevel': 75,
'lightintensity': 59}
Published data Successfully: %s {'waterlevel': 1,
'lightintensity': 14}
Published data Successfully: %s {'waterlevel': 49,
'lightintensity': 94}
Published data Successfully: %s {'waterlevel': 37,
'lightintensity': 75}
Published data Successfully: %s {'waterlevel': 69,
'lightintensity': 48}
Published data Successfully: %s {'waterlevel': 22,
'lightintensity': 17}
```


assignment3.py - C:\Users\Lenovo\Desktop\python programs IOT\assignment3.py (3.9.6)
File
Edit
Format
Run
Options
Window
Help

```python
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import time
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