#### VIT SMART BRIDGE IOT EXTERNSHIP PROGRAM

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### 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.

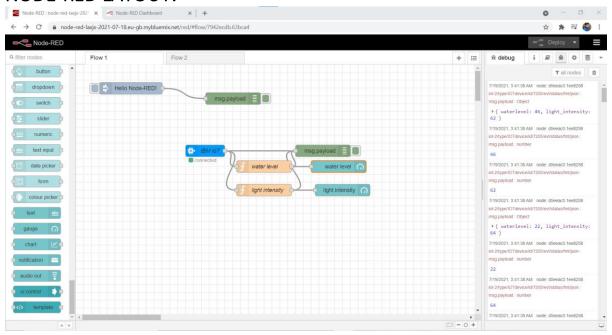
### Python code:

```
iotdevice.py - C:/Users/personal/Desktop/iot/iotdevice.py (3.9.6)
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File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "sy0w6c",
        "typeId": "IOTdevice",
        "deviceId": "7205"
    "auth": {
        "token": "Rsp@9999"
    }
}
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:
    waterlevel=random.randint(0,100)
    light=random.randint(0,100)
    myData={'waterlevel':waterlevel, 'light_intensity':light}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

### Code:

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import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
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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:
  waterlevel=random.randint(0,100)
  light=random.randint(0,100)
  myData={'waterlevel':waterlevel, 'light intensity':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 LAYOUT:**



### **OUTPUT:**



