ASSIGNMENT-3

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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.

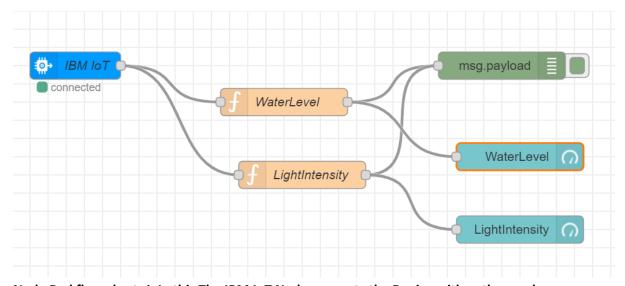
Code:

```
import wiotp.sdk.device
import time
 import random
myConfig = {
     "identity": {
    "orgId": "Oaaw8c",
         "typeId": "VITDevice",
         "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(0,100)
     light=random.randint(0,100)
     myData={'WaterLevel':level, 'LightIntensity':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()
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "0aaw8c",
```

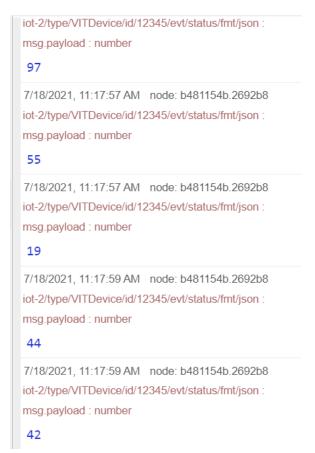
```
"typeId": "VITDevice",
  "deviceId":"12345"
  },
  "auth": {
    "token": "12345678"
 }
}
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
  m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  level=random.randint(0,100)
  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()
```

```
===== RESTART: C:\Users\DELL\Desktop\ASSIGNMENTS\Assignment3\assignment3.py ====
2021-07-18 11:22:45,997 wiotp.sdk.device.client.DeviceClient INFO Connecte
d successfully: d:0aaw8c:VITDevice:12345
Published data Successfully: %s {'WaterLevel': 79, 'LightIntensity': 25}
Published data Successfully: %s {'WaterLevel': 45, 'LightIntensity': 40}
Published data Successfully: %s {'WaterLevel': 91, 'LightIntensity': 50}
Published data Successfully: %s {'WaterLevel': 88, 'LightIntensity': 89}
Published data Successfully: %s {'WaterLevel': 88, 'LightIntensity': 1}
Published data Successfully: %s {'WaterLevel': 66, 'LightIntensity': 38}
Published data Successfully: %s {'WaterLevel': 75, 'LightIntensity': 65}
Published data Successfully: %s {'WaterLevel': 63, 'LightIntensity': 29}
Published data Successfully: %s {'WaterLevel': 19, 'LightIntensity': 58}
Published data Successfully: %s {'WaterLevel': 59, 'LightIntensity': 75}
Published data Successfully: %s {'WaterLevel': 38, 'LightIntensity': 86}
Published data Successfully: %s {'WaterLevel': 99, 'LightIntensity': 86}
Published data Successfully: %s {'WaterLevel': 99, 'LightIntensity': 81}
Published data Successfully: %s {'WaterLevel': 97, 'LightIntensity': 51}
Published data Successfully: %s {'WaterLevel': 24, 'LightIntensity': 95}
```

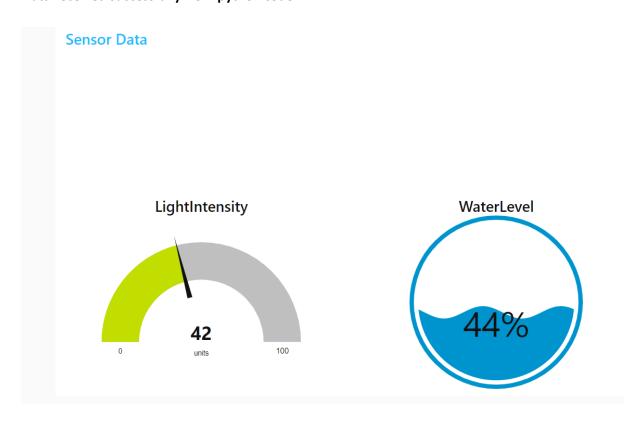
Output of the python code → It is sending some random data values to the device



Node Red flow chart → In this The IBM IoT Node connects the Device with python code



Data received successfully from python code



Final webpage it aslo receiving the same data produced by the random variables in python