VIT-SMART BRIDGE IoT EXTERNSHIP PROGRAM

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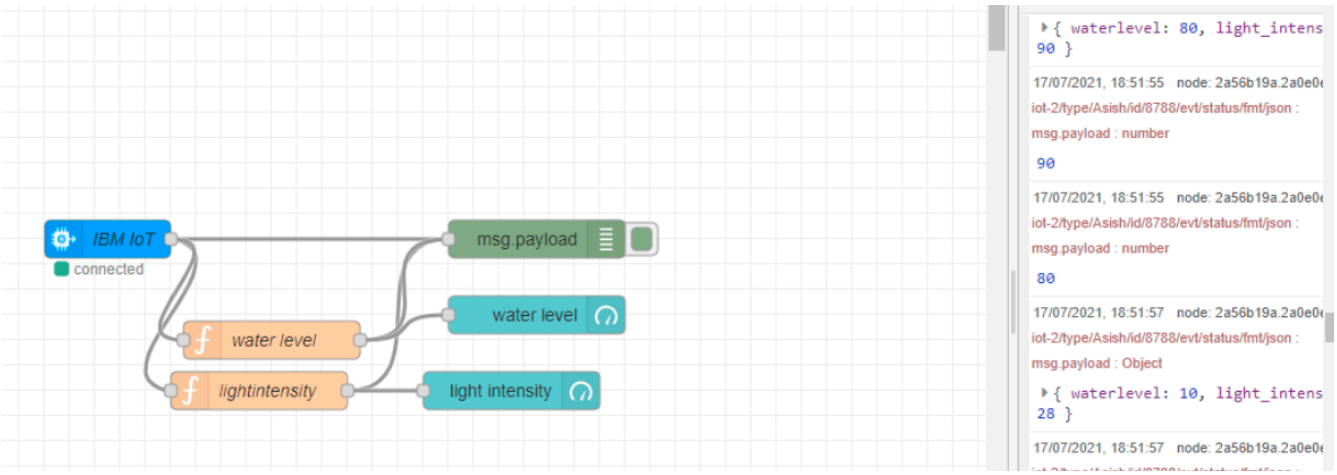
Assignment-3:

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.

Code:

```
import wiotp.sdk.device

import time

import random

myConfig = {

 "identity": {

 "orgId": "3n74ik",

 "typeId": "SAMPATHDASA",

 "deviceId":"8788"

 },
```

```
 "auth": {
 "token": "Sampath2001@"
 }
}
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()
```



IDLE Shell 3.9.5

File Edit Shell Debug Options Window Help

```
Python 3.9.5 (tags/v3.9.5:0a7dcbd, May  3 2021, 17:27:52) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
============== RESTART: C:/Users/LENOVO/Desktop/lightintensity.py ==============
2021-07-18 19:54:22,844    wiotp.sdk.device.client.DeviceClient  INFO    Connected successfully: d:3n74ik:SAMPATHDASA:8788
Published data Successfully: %s {'waterlevel': 59, 'light_intensity': 82}
Published data Successfully: %s {'waterlevel': 63, 'light_intensity': 79}
Published data Successfully: %s {'waterlevel': 80, 'light_intensity': 19}
Published data Successfully: %s {'waterlevel': 9, 'light_intensity': 68}
Published data Successfully: %s {'waterlevel': 7, 'light_intensity': 1}
Published data Successfully: %s {'waterlevel': 81, 'light_intensity': 68}
Published data Successfully: %s {'waterlevel': 77, 'light_intensity': 23}
Published data Successfully: %s {'waterlevel': 97, 'light_intensity': 34}
Published data Successfully: %s {'waterlevel': 99, 'light_intensity': 72}
Published data Successfully: %s {'waterlevel': 77, 'light_intensity': 3}
Published data Successfully: %s {'waterlevel': 56, 'light_intensity': 94}
Published data Successfully: %s {'waterlevel': 76, 'light_intensity': 45}
Published data Successfully: %s {'waterlevel': 73, 'light_intensity': 37}
Published data Successfully: %s {'waterlevel': 34, 'light_intensity': 85}
Published data Successfully: %s {'waterlevel': 24, 'light_intensity': 27}
Published data Successfully: %s {'waterlevel': 6, 'light_intensity': 78}
Published data Successfully: %s {'waterlevel': 74, 'light_intensity': 95}
Published data Successfully: %s {'waterlevel': 80, 'light_intensity': 73}
Published data Successfully: %s {'waterlevel': 53, 'light_intensity': 66}
```