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.

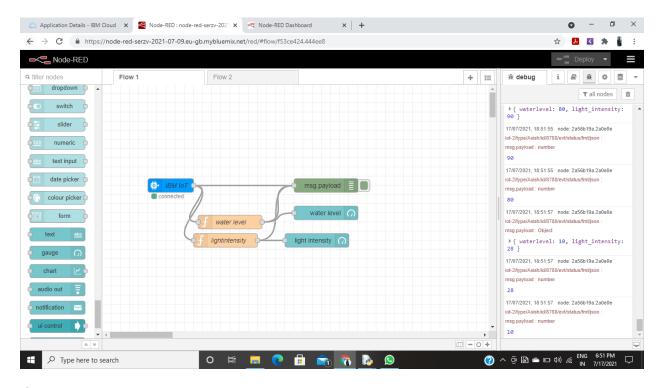
Python code:

```
ibmiot.py - C:\Users\hp\Desktop\iot\ibmiot.py (3.9.6)
                                                                                  \times
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "lsmyiq",
        "typeId": "Asish",
        "deviceId": "8788"
    },
    "auth": {
       "token": "Ashish@123"
}
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:

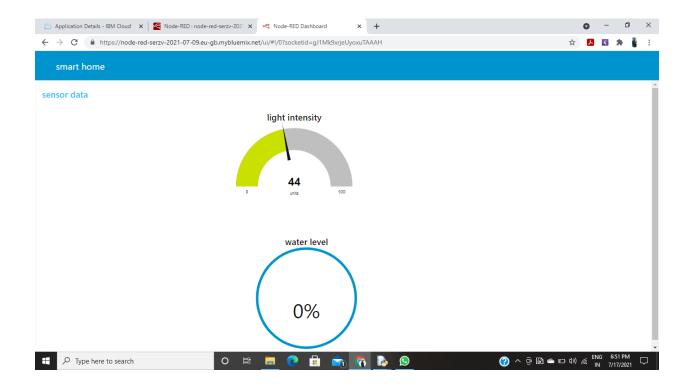
import wiotp.sdk.device

```
import time
import random
myConfig = {
  "identity": {
    "orgId": "1smyiq",
    "typeId": "Asish",
    "deviceId":"8788"
  },
  "auth": {
    "token": "Ashish@123"
  }
}
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()
```



Output:

```
X
*IDLE Shell 3.9.6*
                                                                          File Edit Shell Debug Options Window Help
Published data Successfully: %s {'waterlevel': 0, 'light intensity': 44}
Published data Successfully: %s {'waterlevel': 12, 'light_intensity': 37}
Published data Successfully: %s {'waterlevel': 90, 'light intensity': 41}
Published data Successfully: %s {'waterlevel': 85, 'light intensity': 59}
Published data Successfully: %s {'waterlevel': 21, 'light intensity': 48}
Published data Successfully: %s {'waterlevel': 33, 'light intensity': 31}
Published data Successfully: %s {'waterlevel': 86, 'light intensity': 31}
Published data Successfully: %s {'waterlevel': 84, 'light intensity': 34}
Published data Successfully: %s {'waterlevel': 22, 'light intensity': 70}
Published data Successfully: %s {'waterlevel': 45, 'light intensity': 51}
Published data Successfully: %s {'waterlevel': 48, 'light intensity': 17}
Published data Successfully: %s {'waterlevel': 46, 'light intensity': 68}
Published data Successfully: %s {'waterlevel': 10, 'light intensity': 59}
Published data Successfully: %s {'waterlevel': 38, 'light intensity': 9}
Published data Successfully: %s {'waterlevel': 80, 'light intensity': 90}
Published data Successfully: %s {'waterlevel': 10, 'light intensity': 28}
Published data Successfully: %s {'waterlevel': 77, 'light intensity': 21}
Published data Successfully: %s {'waterlevel': 13, 'light intensity': 42}
Published data Successfully: %s {'waterlevel': 22, 'light intensity': 62}
Published data Successfully: %s {'waterlevel': 84, 'light intensity': 30}
Published data Successfully: %s {'waterlevel': 43, 'light intensity': 77}
Published data Successfully: %s {'waterlevel': 57, 'light intensity': 56}
Published data Successfully: %s {'waterlevel': 62, 'light intensity': 35}
Published data Successfully: %s {'waterlevel': 59, 'light intensity': 15}
```



https://node-red-serzv-2021-07-09.eu-gb.mybluemix.net/ui/#!/0?socketid=gJ1Mk9xrjeUyoxuTAAAH