VIT IOT - (Industry Certificate Program)

B SRAVAN KUMAR

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": "1smyiq",
        "typeId": "Sravan",
        "deviceId":"8648"
    },
    "auth": {
        "token": "Sravan@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()

ibmiot.py - C:\Users\Sravan Kumar\Downloads\ibmiot.py (3.9.6)

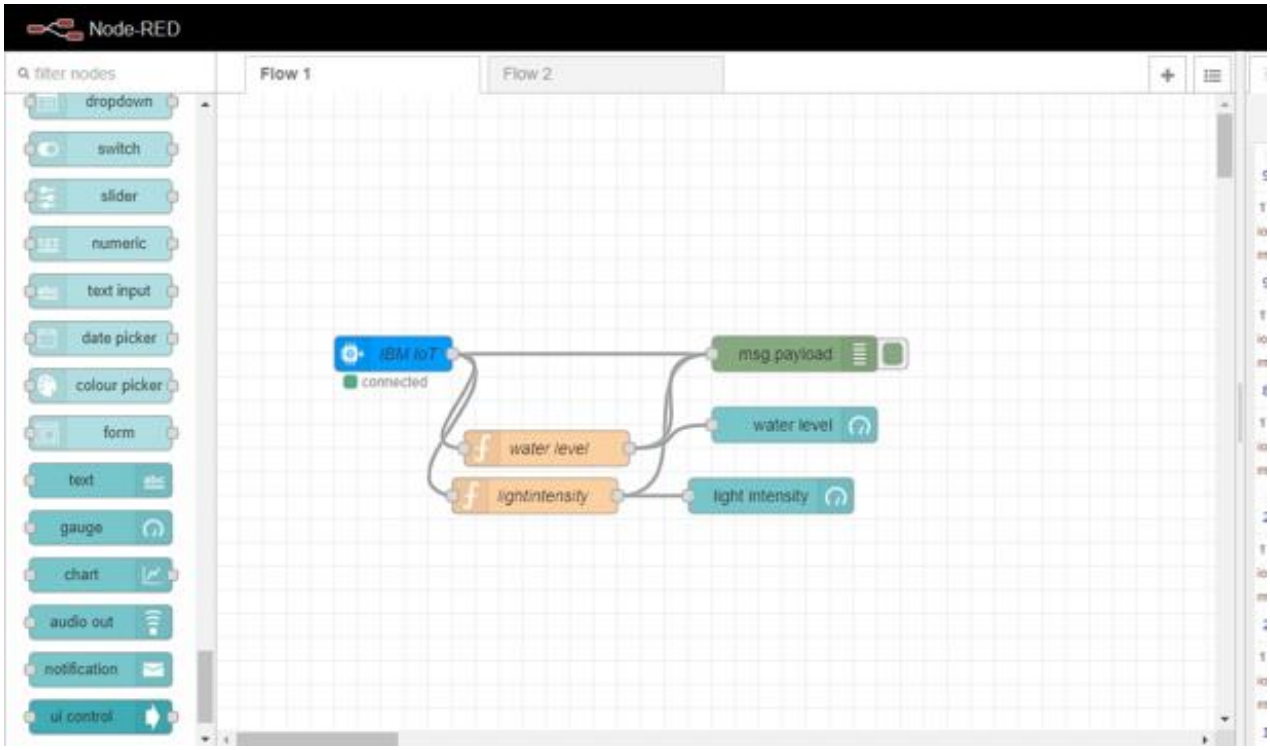
File Edit Format Run Options Window Help

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "1smyiq",
        "typeId": "Sravan",
        "deviceId":"8648"
    },
    "auth": {
        "token": "Sravan@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()
```



OUTPUT:

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}
```

smart home

sensor data