

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:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "gi93ip",
        "typeId": "VITAp",
        "deviceId": "8127"
    },
    "auth": {
        "token": "9989108789"
    }
}

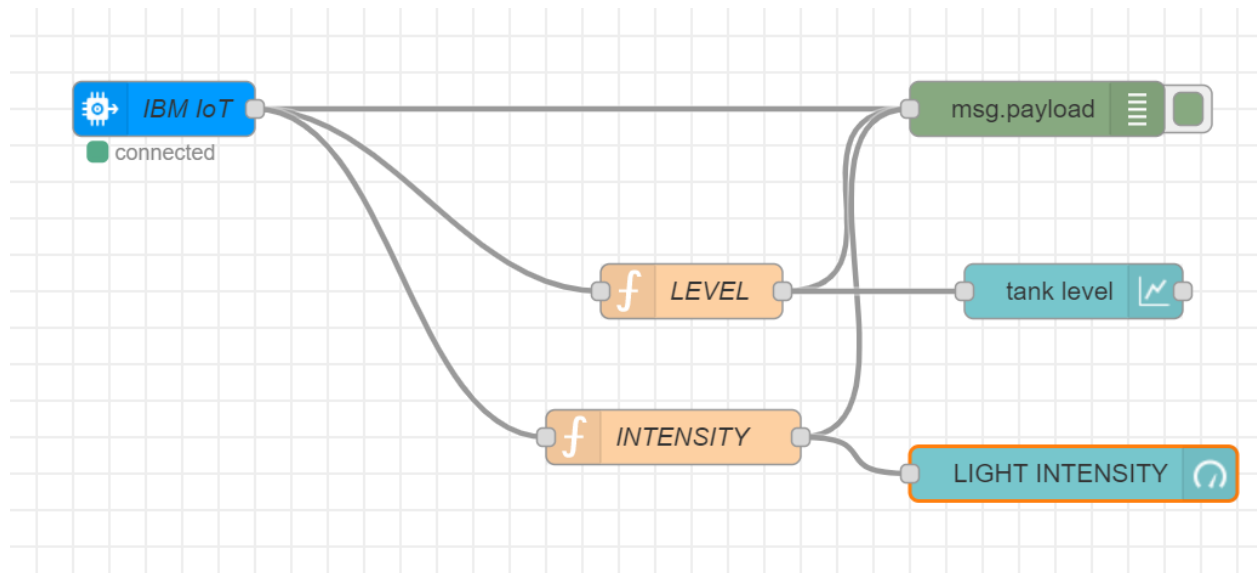
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    level=random.randint(0,100)
    intensity=random.randint(0,100)
    myData={'watertanklevel':level, 'lightintensity':intensity}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
    print("Published data Successfully: %s", myData)
```

```
client.commandCallback = myCommandCallback
# m=input("enter the code")
time.sleep(2)
client.disconnect()
```

DESIGN



OUTPUT

msg.payload : number

75

7/16/2021, 11:33:01 AM node: 882809ed.ca8de8

iot-2/type/VITAp/id/8127/evt/status/fmt/json :

msg.payload : number

18

7/16/2021, 11:33:03 AM node: 882809ed.ca8de8

iot-2/type/VITAp/id/8127/evt/status/fmt/json :

msg.payload : Object

▶ { watertanklevel: 35,
lightintensity: 7 }

7/16/2021, 11:33:03 AM node: 882809ed.ca8de8

iot-2/type/VITAp/id/8127/evt/status/fmt/json :

msg.payload : number

35

7/16/2021, 11:33:03 AM node: 882809ed.ca8de8

iot-2/type/VITAp/id/8127/evt/status/fmt/json :

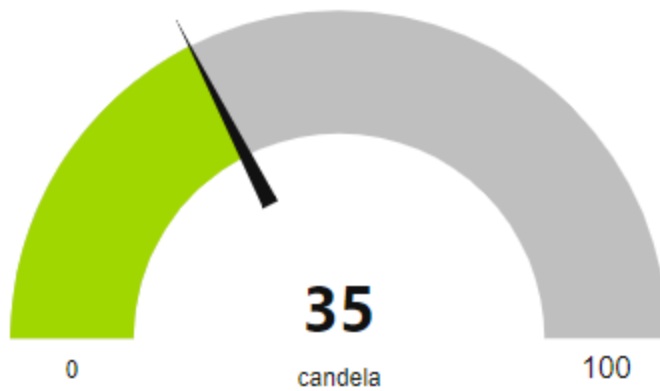
msg.payload : number

7

VISUALIZATION

view

LIGHT INTENSITY



tank level

