IOT ASSIGNMENT-3

M.SAI VARSHITH

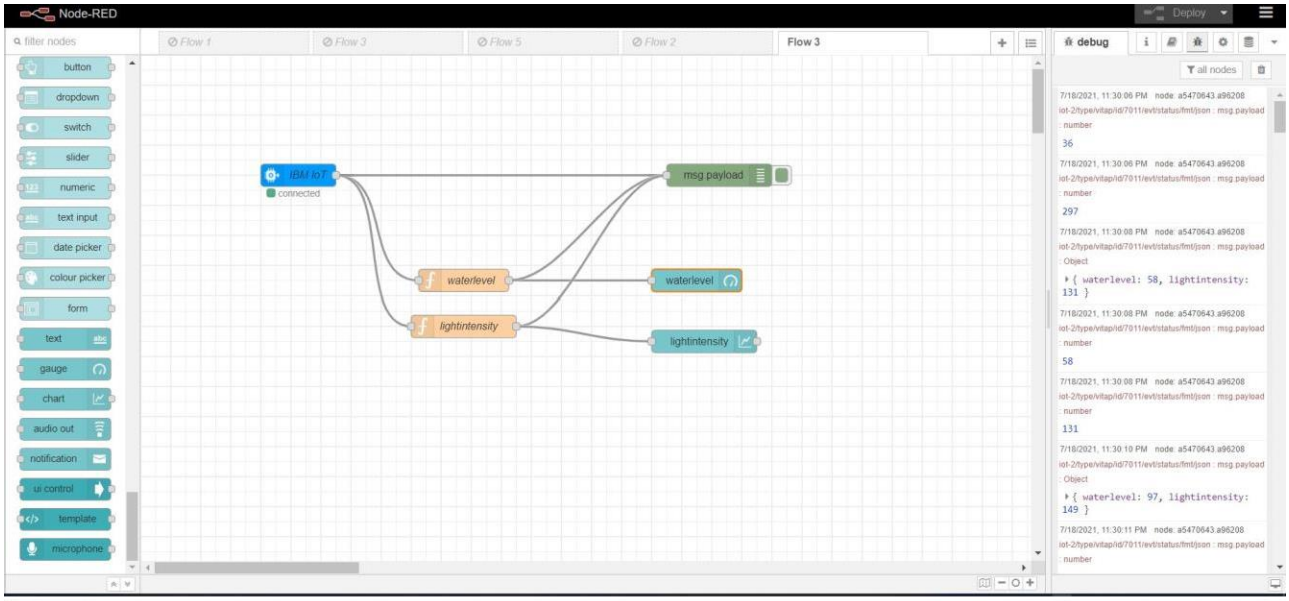
CODE:

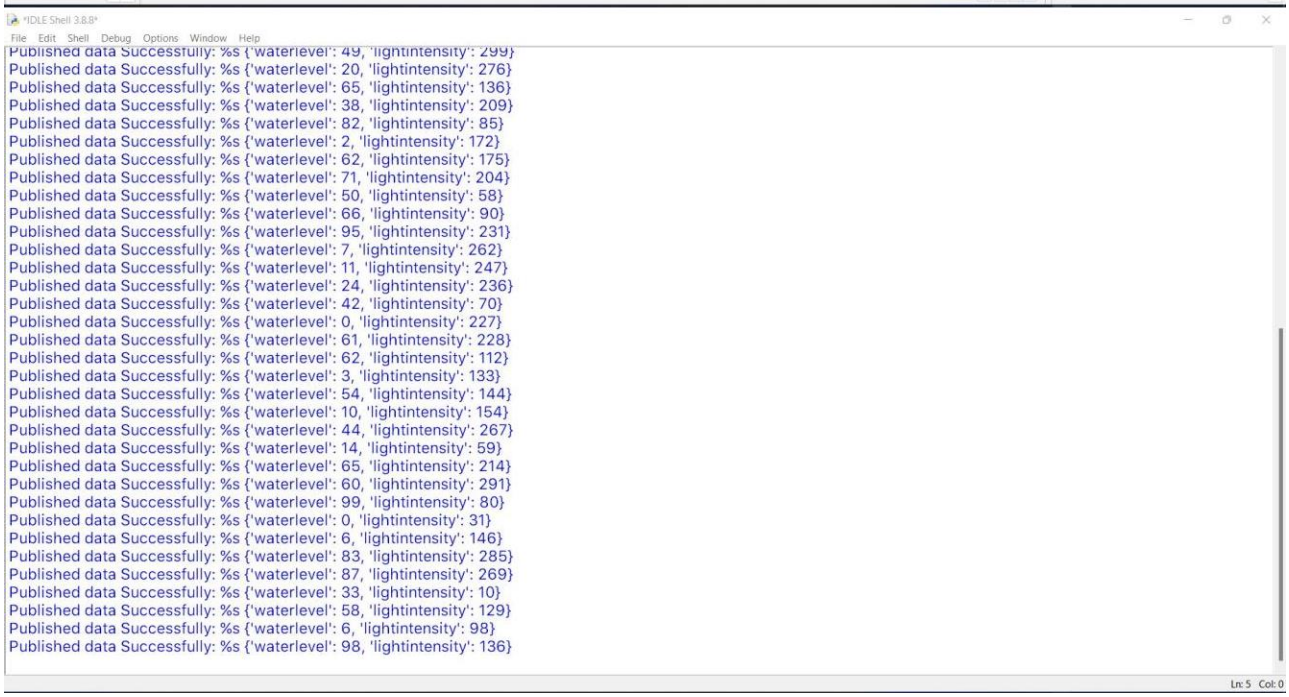
```
import
wiotp.sdk.device
import time import
random myConfig = {
  "identity":{
    "orgId": "h8cuk6",
    "typeId":
    "varshit",
    "deviceId":"7119
    "
  },
  "auth":{
    "token": "varshit719"
  }
}
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
```

```
m=cmd.data['command']


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




while True:

   wl=random.randint(0,100)

li=random.randint(0,300)

   myData={'waterlevel':wl,'lightintensity':li}
```

```
    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()
```

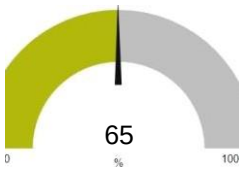
OUTPUT:


Node-RED
Deploy
filter nodes
Flow 1
Flow 3
Flow 5
Flow 2
Flow 3
button
dropdown
switch
slider
numeric
text input
date picker
colour picker
form
text
gauge
chart
audio out
notification
ui control
template
microphone
IBM IoT
connected
msg payload
waterlevel
lightintensity
waterlevel
lightintensity
debug
all nodes
7/18/2021, 11:30:06 PM node: a5470643.a96208
iot-2/type/vitap/id/7011/evt/status/fmt/json : msg.payload : number
36
7/18/2021, 11:30:06 PM node: a5470643.a96208
iot-2/type/vitap/id/7011/evt/status/fmt/json : msg.payload : number
297
7/18/2021, 11:30:08 PM node: a5470643.a96208
iot-2/type/vitap/id/7011/evt/status/fmt/json : msg.payload : Object
{ waterlevel: 58, lightintensity: 131 }
7/18/2021, 11:30:08 PM node: a5470643.a96208
iot-2/type/vitap/id/7011/evt/status/fmt/json : msg.payload : number
58
7/18/2021, 11:30:08 PM node: a5470643.a96208
iot-2/type/vitap/id/7011/evt/status/fmt/json : msg.payload : number
131
7/18/2021, 11:30:10 PM node: a5470643.a96208
iot-2/type/vitap/id/7011/evt/status/fmt/json : msg.payload : Object
{ waterlevel: 97, lightintensity: 149 }
7/18/2021, 11:30:11 PM node: a5470643.a96208
iot-2/type/vitap/id/7011/evt/status/fmt/json : msg.payload : number


IDLE Shell 3.8.8
File Edit Shell Debug Options Window Help
Published data Successfully: %s {'waterlevel': 49, 'lightintensity': 299}
Published data Successfully: %s {'waterlevel': 20, 'lightintensity': 276}
Published data Successfully: %s {'waterlevel': 65, 'lightintensity': 136}
Published data Successfully: %s {'waterlevel': 38, 'lightintensity': 209}
Published data Successfully: %s {'waterlevel': 82, 'lightintensity': 85}
Published data Successfully: %s {'waterlevel': 2, 'lightintensity': 172}
Published data Successfully: %s {'waterlevel': 62, 'lightintensity': 175}
Published data Successfully: %s {'waterlevel': 71, 'lightintensity': 204}
Published data Successfully: %s {'waterlevel': 50, 'lightintensity': 58}
Published data Successfully: %s {'waterlevel': 66, 'lightintensity': 90}
Published data Successfully: %s {'waterlevel': 95, 'lightintensity': 231}
Published data Successfully: %s {'waterlevel': 7, 'lightintensity': 262}
Published data Successfully: %s {'waterlevel': 11, 'lightintensity': 247}
Published data Successfully: %s {'waterlevel': 24, 'lightintensity': 236}
Published data Successfully: %s {'waterlevel': 42, 'lightintensity': 70}
Published data Successfully: %s {'waterlevel': 0, 'lightintensity': 227}
Published data Successfully: %s {'waterlevel': 61, 'lightintensity': 228}
Published data Successfully: %s {'waterlevel': 62, 'lightintensity': 112}
Published data Successfully: %s {'waterlevel': 3, 'lightintensity': 133}
Published data Successfully: %s {'waterlevel': 54, 'lightintensity': 144}
Published data Successfully: %s {'waterlevel': 10, 'lightintensity': 154}
Published data Successfully: %s {'waterlevel': 44, 'lightintensity': 267}
Published data Successfully: %s {'waterlevel': 14, 'lightintensity': 59}
Published data Successfully: %s {'waterlevel': 65, 'lightintensity': 214}
Published data Successfully: %s {'waterlevel': 60, 'lightintensity': 291}
Published data Successfully: %s {'waterlevel': 99, 'lightintensity': 80}
Published data Successfully: %s {'waterlevel': 0, 'lightintensity': 31}
Published data Successfully: %s {'waterlevel': 6, 'lightintensity': 146}
Published data Successfully: %s {'waterlevel': 83, 'lightintensity': 285}
Published data Successfully: %s {'waterlevel': 87, 'lightintensity': 269}
Published data Successfully: %s {'waterlevel': 33, 'lightintensity': 10}
Published data Successfully: %s {'waterlevel': 58, 'lightintensity': 129}
Published data Successfully: %s {'waterlevel': 6, 'lightintensity': 98}
Published data Successfully: %s {'waterlevel': 98, 'lightintensity': 136}
Ln: 5 Col: 0

data

waterl evel



lightintensity