

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:

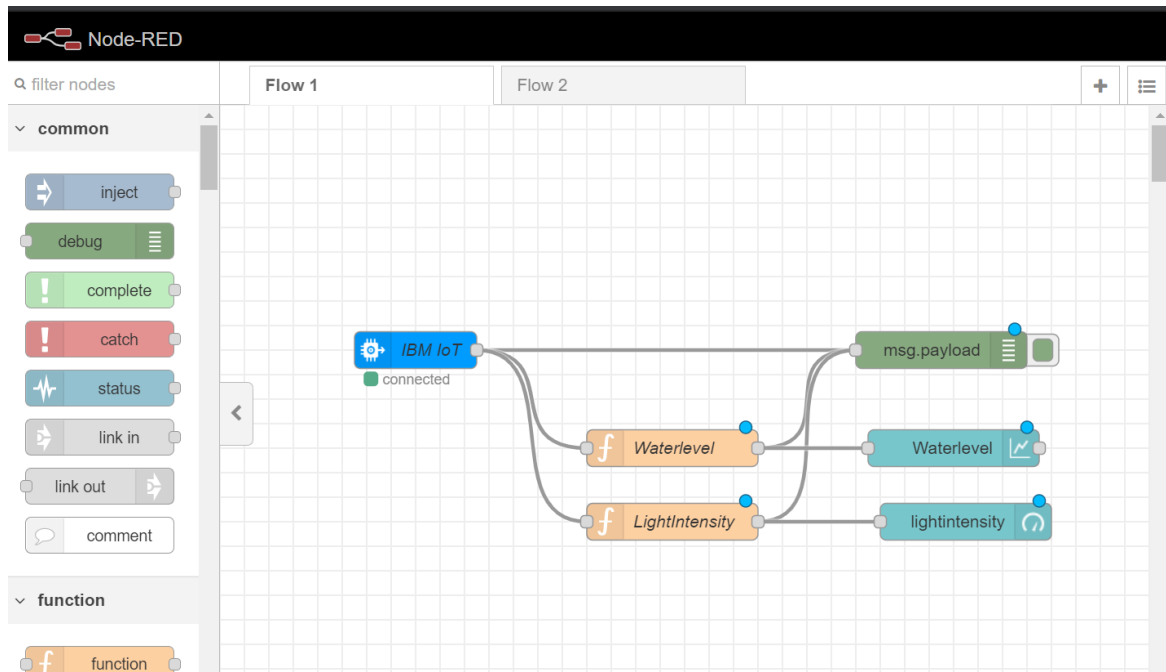
```
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "0p9zqf",
        "typeId": "VIT18bec7029",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}

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(0,500)
    light=random.randint(0,100)
    myData={'waterlevel':level, 'lightintensity':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()
```

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NODE-RED OUTPUT:



```
Published data Successfully: %s {'waterlevel': 279, 'lightintensity': 19}
Published data Successfully: %s {'waterlevel': 139, 'lightintensity': 17}
Published data Successfully: %s {'waterlevel': 399, 'lightintensity': 82}
Published data Successfully: %s {'waterlevel': 275, 'lightintensity': 25}
Published data Successfully: %s {'waterlevel': 126, 'lightintensity': 93}
Published data Successfully: %s {'waterlevel': 430, 'lightintensity': 1}
Published data Successfully: %s {'waterlevel': 156, 'lightintensity': 53}
Published data Successfully: %s {'waterlevel': 288, 'lightintensity': 86}
Published data Successfully: %s {'waterlevel': 452, 'lightintensity': 38}
Published data Successfully: %s {'waterlevel': 179, 'lightintensity': 75}
Published data Successfully: %s {'waterlevel': 171, 'lightintensity': 29}
Published data Successfully: %s {'waterlevel': 158, 'lightintensity': 82}
Published data Successfully: %s {'waterlevel': 214, 'lightintensity': 32}
Published data Successfully: %s {'waterlevel': 234, 'lightintensity': 69}
Published data Successfully: %s {'waterlevel': 326, 'lightintensity': 70}
Published data Successfully: %s {'waterlevel': 302, 'lightintensity': 4}
Published data Successfully: %s {'waterlevel': 20, 'lightintensity': 86}
```