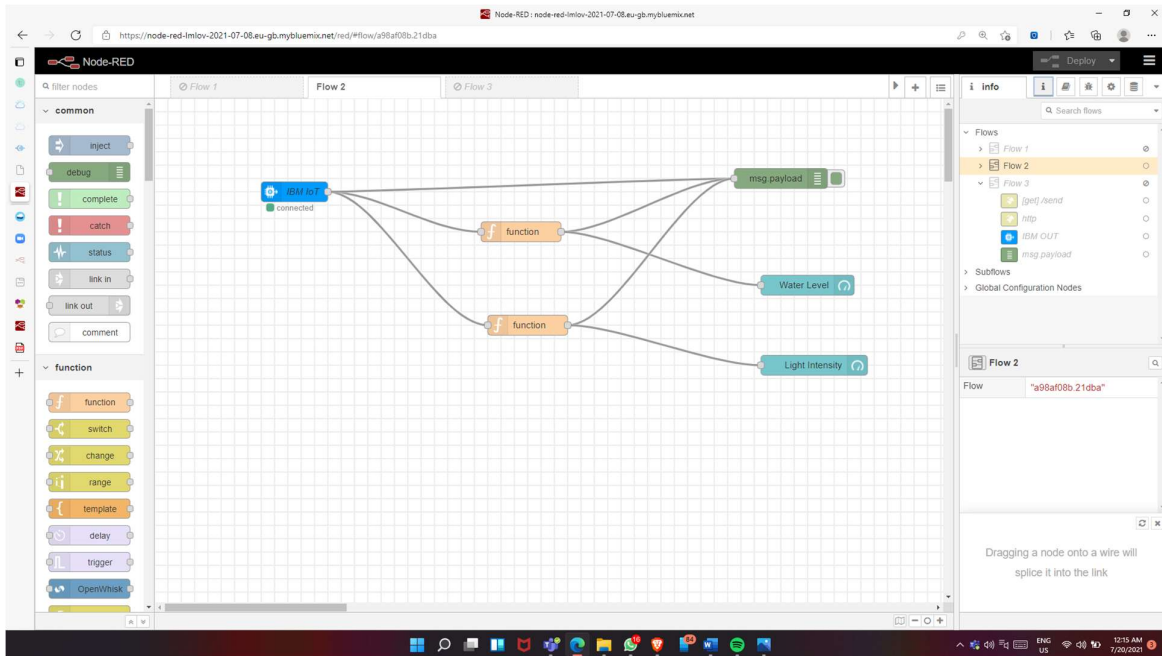


Assignment-3

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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.



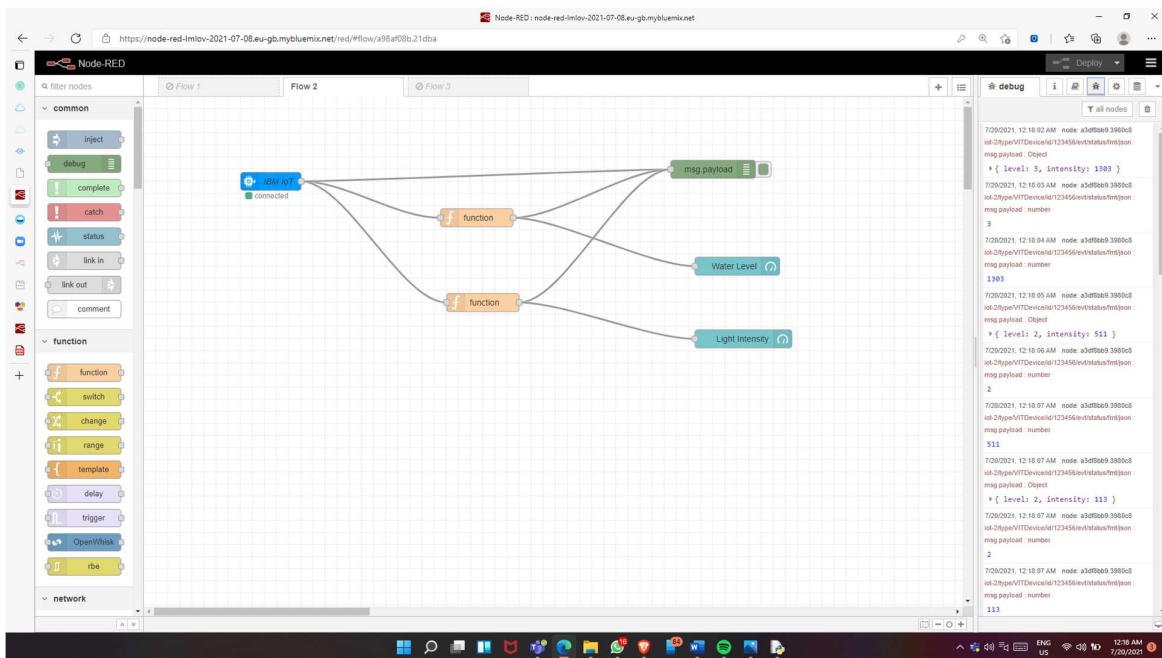
CODE:

```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "2wbxp8",
    "typeId": "VITDevice",
    "deviceId": "123456"
  },
  "auth": {
    "token": "Q8mStguHsUz0hcwz_8"
  }
}
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(0,10)
    intensity=random.randint(100,1500)
    myData={'level':level, 'intensity':intensity}
    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()
```

```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "2wbxp8",
    "typeId": "VITDevice",
    "deviceId": "123456"
  },
  "auth": {
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  while True:
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    intensity=random.randint(100,1500)
    myData={"level":level, 'intensity':intensity}
    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()
```

After simulation:



```
File Edit Shell Debug Options Window Help
Type "help", "copyright", "credits" or "license()" for more information.
>>>
=== RESTART: C:\Users\prana\AppData\Local\Programs\Python\Python39\python.py ===
2021-07-20 00:18:02,178 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:2wbxp8-VITDevice:123456
Published data Successfully: %s ['level': 3, 'intensity': 1303]
Published data Successfully: %s ['level': 2, 'intensity': 511]
Published data Successfully: %s ['level': 2, 'intensity': 113]
Published data Successfully: %s ['level': 10, 'intensity': 261]
Published data Successfully: %s ['level': 6, 'intensity': 1460]
Published data Successfully: %s ['level': 7, 'intensity': 583]
Published data Successfully: %s ['level': 0, 'intensity': 1217]
Published data Successfully: %s ['level': 0, 'intensity': 897]
Published data Successfully: %s ['level': 5, 'intensity': 1475]
Published data Successfully: %s ['level': 4, 'intensity': 1191]
Published data Successfully: %s ['level': 3, 'intensity': 639]
Published data Successfully: %s ['level': 1, 'intensity': 178]
Published data Successfully: %s ['level': 8, 'intensity': 663]
Published data Successfully: %s ['level': 5, 'intensity': 666]
Published data Successfully: %s ['level': 4, 'intensity': 1071]
Published data Successfully: %s ['level': 0, 'intensity': 714]
Published data Successfully: %s ['level': 1, 'intensity': 378]
Published data Successfully: %s ['level': 9, 'intensity': 815]
Published data Successfully: %s ['level': 7, 'intensity': 302]
Published data Successfully: %s ['level': 0, 'intensity': 752]
Published data Successfully: %s ['level': 4, 'intensity': 720]
Published data Successfully: %s ['level': 2, 'intensity': 162]
Published data Successfully: %s ['level': 7, 'intensity': 336]
Published data Successfully: %s ['level': 5, 'intensity': 538]
Published data Successfully: %s ['level': 3, 'intensity': 780]
Published data Successfully: %s ['level': 7, 'intensity': 969]
Published data Successfully: %s ['level': 8, 'intensity': 134]
Published data Successfully: %s ['level': 4, 'intensity': 1170]
Published data Successfully: %s ['level': 1, 'intensity': 1358]
Published data Successfully: %s ['level': 5, 'intensity': 502]
Published data Successfully: %s ['level': 0, 'intensity': 102]
Published data Successfully: %s ['level': 9, 'intensity': 1105]
Published data Successfully: %s ['level': 2, 'intensity': 1247]
Published data Successfully: %s ['level': 3, 'intensity': 1100]
Published data Successfully: %s ['level': 4, 'intensity': 1291]
Published data Successfully: %s ['level': 2, 'intensity': 941]
Published data Successfully: %s ['level': 10, 'intensity': 666]
Published data Successfully: %s
```

