Assignment 3

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Q: Visualisation of water tank level and its light intensity using python and IBM platform.

Ans:

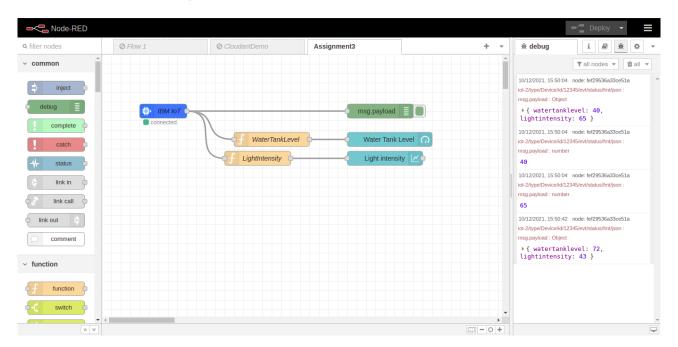
Python Code:

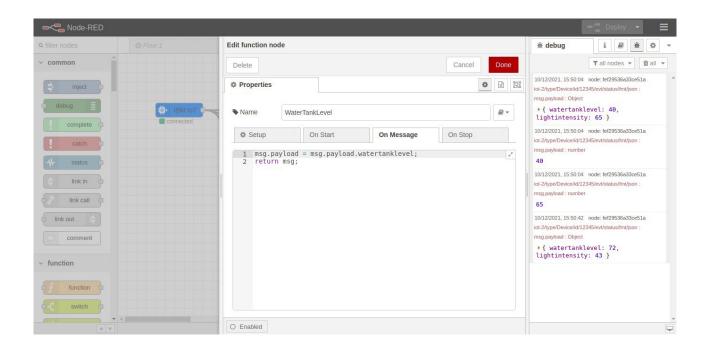
```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
       "orgId": "asdfg",
       "typeId": "Device",
       "deviceId":"99999"
       },
  "auth": {
       "token": "99999999"
}
def myCommandCallback(cmd):
       print(
         "Message received. Here's the relevant information: {0}".format(
           cmd.data['command']
         )
       )
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
i = 0
try:
       while i < 4:
         i += 1
         keyIp = input('\nPress [Enter] to continue or [q] to quit: ')
         print(")
         if (\text{keyIp} == 'q'):
           break
         myData={
              'watertanklevel': random.randint(0,100),
              'lightintensity':random.randint(0,100),
         }
```

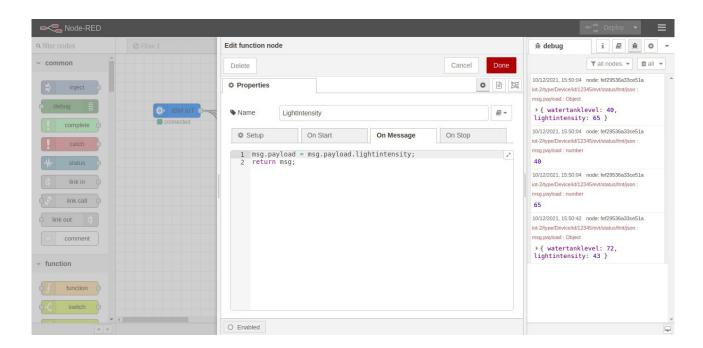
```
client.publishEvent(
    eventId="status",
    msgFormat="json",
    data=myData,
    qos=0,
    onPublish=None,
)

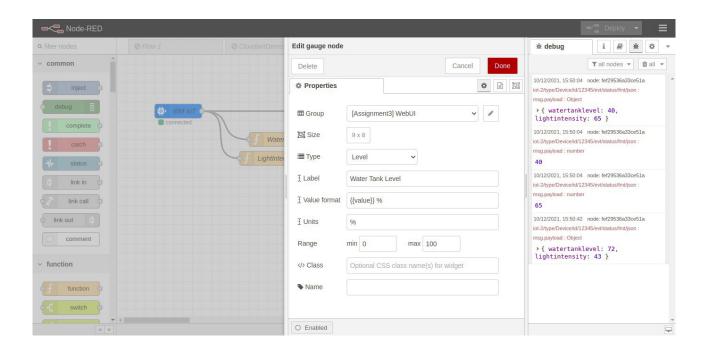
print("Published data successfully: {0}".format(myData))
    client.commandCallback = myCommandCallback
    time.sleep(2)
    print('Exiting ...\n')
    except KeyboardInterrupt:
    print('Exiting ...\n')
client.disconnect()
```

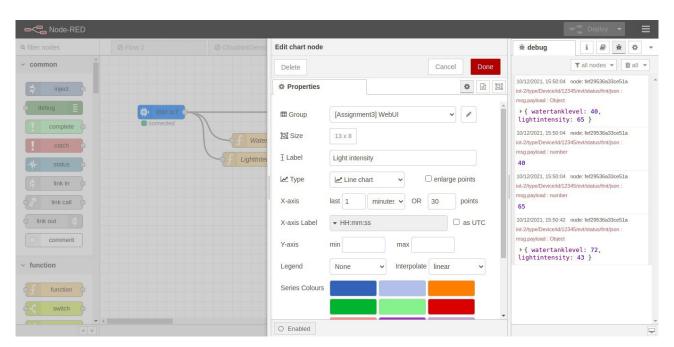
Sceenshots of working:











And finally Visualisation in Web application:

