### **ASSIGNMENT 3** by Sanskar Vidyarthi

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.

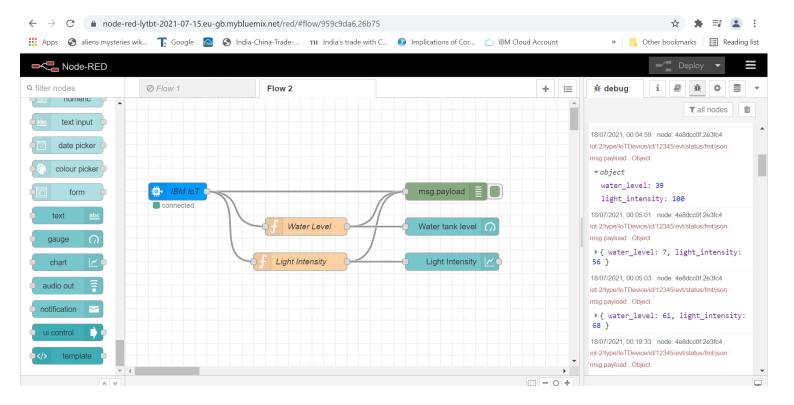
### Code -

```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgld": "3ma3me",
    "typeId": "IoTDevice",
    "deviceId":"12345"
  },
  "auth": {
    "token": "Logan1716"
  }
}
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:
  water_lvl=random.randint(0,100)
  light inty=random.randint(0,100)
  myData={'water_level':water_lvl, 'light_intensity':light_inty}
  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()

### **Screenshots**

```
jupyter Water level and light Intensity indicator Last Checkpoint: 44 minutes ago (autosaved)
                                                                                                                                                                            Logout
                           Insert
                                    Cell
                                             Kernel
                                                        Widgets
                                                                    Help
                                                                                                                                                           Trusted / Python 3 O
+ % 4 6
                                    N Run ■ C > Code
                                                                         v ==
       In [2]: ▶ import wiotp.sdk.device
                      import time
                       import random
                      myConfig = {
                            "identity": {
    "orgId": "3ma3me",
    "typeId": "IoTDevice",
                                "deviceId":"12345"
                            "auth": {
                                 ..
"token": "Logan1716"
                      }
                      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)
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                       while True:
                           water_lvl=random.randint(0,100)
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                           myData={'water_level':water_lvl, 'light_intensity':light_inty}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
print("Published data Successfully: %s", myData)
```



# Web page UI

Water Level and Light Intensity Indicator



# Link to working video

https://drive.google.com/file/d/1oojsS167-O6JIYtpCvW6larEQ2ZxornQ/view?usp=sharing