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# ASSIGNMENT 3

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IBM IOT Platform and UI



BY

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# PYTHON CODE-

```
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "j8rgpm",
        "typeId": "Assignment2",
        "deviceId": "123456"
    },
    "auth": {
        "token": "123456789"
    }
}

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

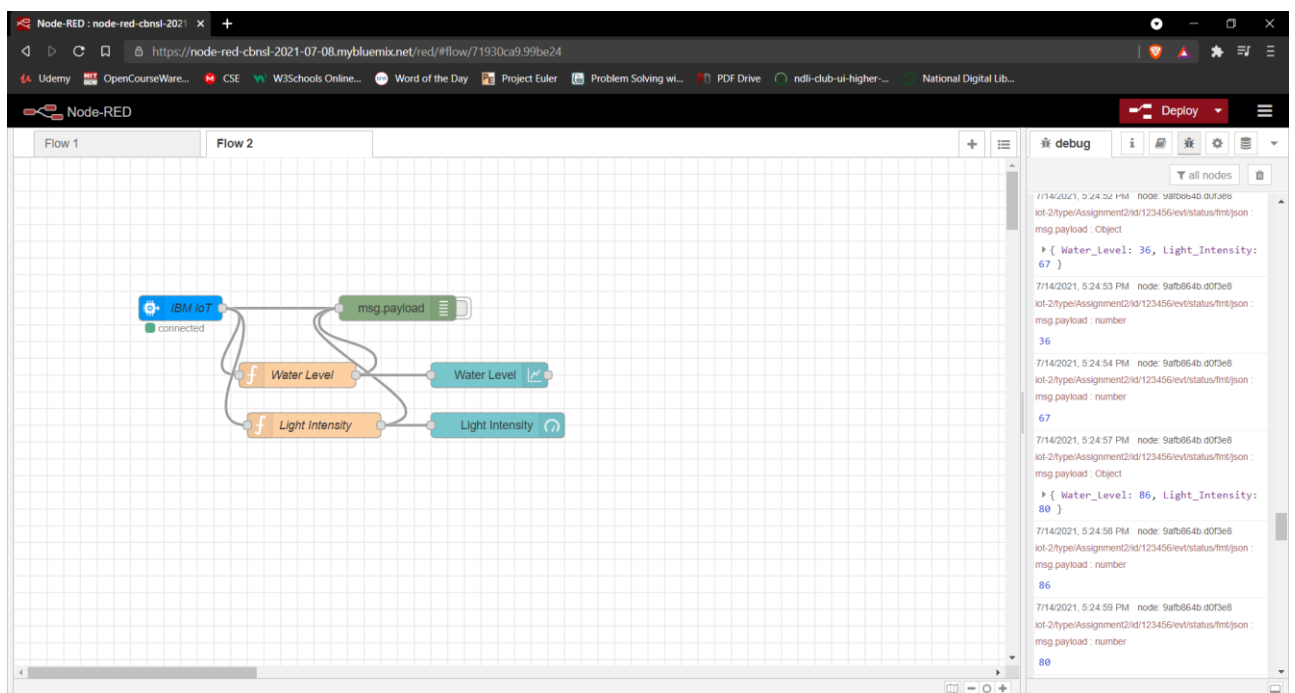
while True:
    level=random.randint(0,125)
    intensity=random.randint(0,100)
    myData={'Water_Level':level, 'Light_Intensity':intensity}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    time.sleep(5)

client.disconnect()
```

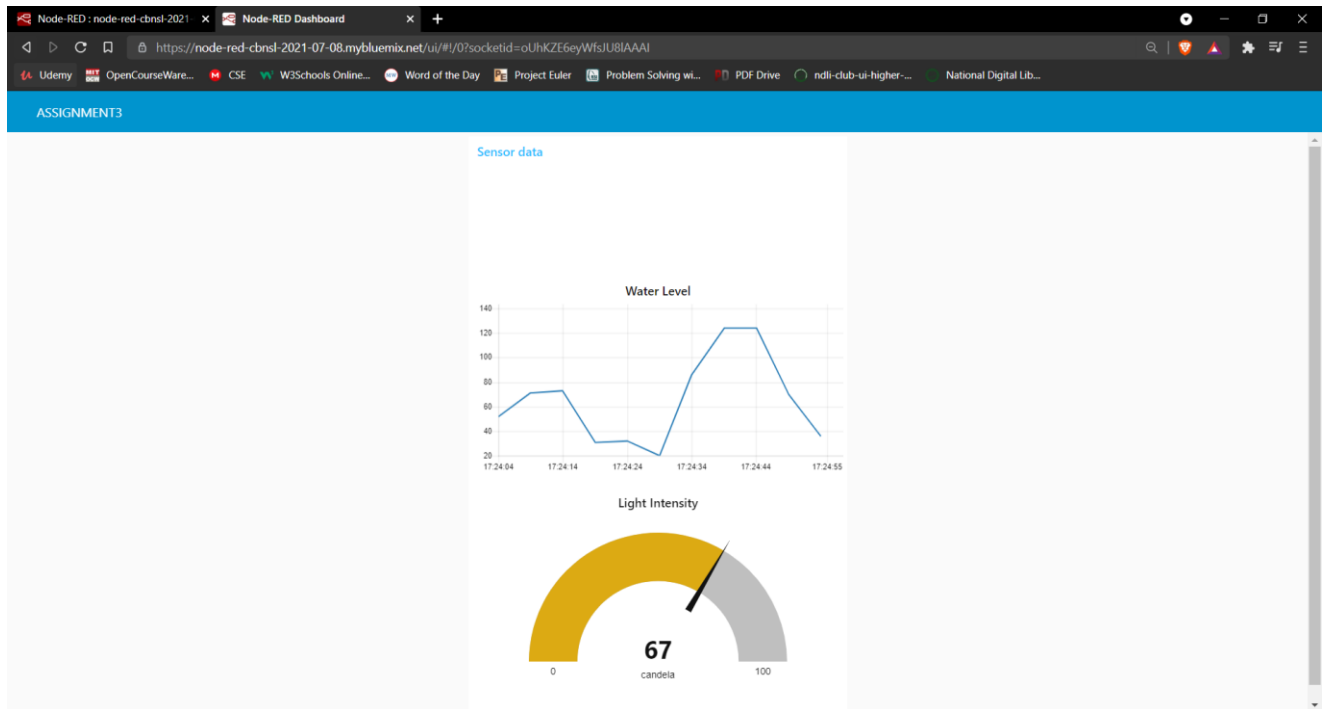
# PYTHON SHELL DURING RUNTIME-

```
*Python 3.9.0 Shell*
File Edit Shell Debug Options Window Help
Published data Successfully: %s ('Water_Level': 77, 'Light_Intensity': 69)
Published data Successfully: %s ('Water_Level': 79, 'Light_Intensity': 59)
Published data Successfully: %s ('Water_Level': 44, 'Light_Intensity': 100)
Published data Successfully: %s ('Water_Level': 58, 'Light_Intensity': 92)
Published data Successfully: %s ('Water_Level': 112, 'Light_Intensity': 92)
Published data Successfully: %s ('Water_Level': 54, 'Light_Intensity': 81)
Published data Successfully: %s ('Water_Level': 29, 'Light_Intensity': 58)
Published data Successfully: %s ('Water_Level': 23, 'Light_Intensity': 49)
Published data Successfully: %s ('Water_Level': 96, 'Light_Intensity': 100)
Published data Successfully: %s ('Water_Level': 12, 'Light_Intensity': 31)
Published data Successfully: %s ('Water_Level': 110, 'Light_Intensity': 71)
Published data Successfully: %s ('Water_Level': 76, 'Light_Intensity': 96)
Published data Successfully: %s ('Water_Level': 98, 'Light_Intensity': 12)
Published data Successfully: %s ('Water_Level': 102, 'Light_Intensity': 41)
Published data Successfully: %s ('Water_Level': 70, 'Light_Intensity': 49)
Published data Successfully: %s ('Water_Level': 110, 'Light_Intensity': 77)
Published data Successfully: %s ('Water_Level': 70, 'Light_Intensity': 9)
Published data Successfully: %s ('Water_Level': 29, 'Light_Intensity': 92)
Published data Successfully: %s ('Water_Level': 8, 'Light_Intensity': 95)
Published data Successfully: %s ('Water_Level': 90, 'Light_Intensity': 27)
Published data Successfully: %s ('Water_Level': 122, 'Light_Intensity': 2)
Published data Successfully: %s ('Water_Level': 12, 'Light_Intensity': 2)
Published data Successfully: %s ('Water_Level': 29, 'Light_Intensity': 12)
Published data Successfully: %s ('Water_Level': 92, 'Light_Intensity': 40)
Published data Successfully: %s ('Water_Level': 117, 'Light_Intensity': 39)
Published data Successfully: %s ('Water_Level': 110, 'Light_Intensity': 97)
Published data Successfully: %s ('Water_Level': 110, 'Light_Intensity': 99)
Published data Successfully: %s ('Water_Level': 5, 'Light_Intensity': 1)
Published data Successfully: %s ('Water_Level': 102, 'Light_Intensity': 45)
Published data Successfully: %s ('Water_Level': 110, 'Light_Intensity': 6)
Published data Successfully: %s ('Water_Level': 23, 'Light_Intensity': 27)
Published data Successfully: %s ('Water_Level': 107, 'Light_Intensity': 1)
Published data Successfully: %s ('Water_Level': 96, 'Light_Intensity': 77)
Published data Successfully: %s ('Water_Level': 30, 'Light_Intensity': 14)
Published data Successfully: %s ('Water_Level': 33, 'Light_Intensity': 63)
Published data Successfully: %s ('Water_Level': 13, 'Light_Intensity': 50)
Published data Successfully: %s ('Water_Level': 78, 'Light_Intensity': 87)
Published data Successfully: %s ('Water_Level': 62, 'Light_Intensity': 98)
Published data Successfully: %s ('Water_Level': 69, 'Light_Intensity': 41)
Published data Successfully: %s ('Water_Level': 109, 'Light_Intensity': 78)
Published data Successfully: %s ('Water_Level': 1, 'Light_Intensity': 97)
Published data Successfully: %s ('Water_Level': 52, 'Light_Intensity': 32)
Published data Successfully: %s ('Water_Level': 67, 'Light_Intensity': 22)
Published data Successfully: %s ('Water_Level': 11, 'Light_Intensity': 89)
Published data Successfully: %s ('Water_Level': 69, 'Light_Intensity': 87)
Published data Successfully: %s ('Water_Level': 27, 'Light_Intensity': 81)
```

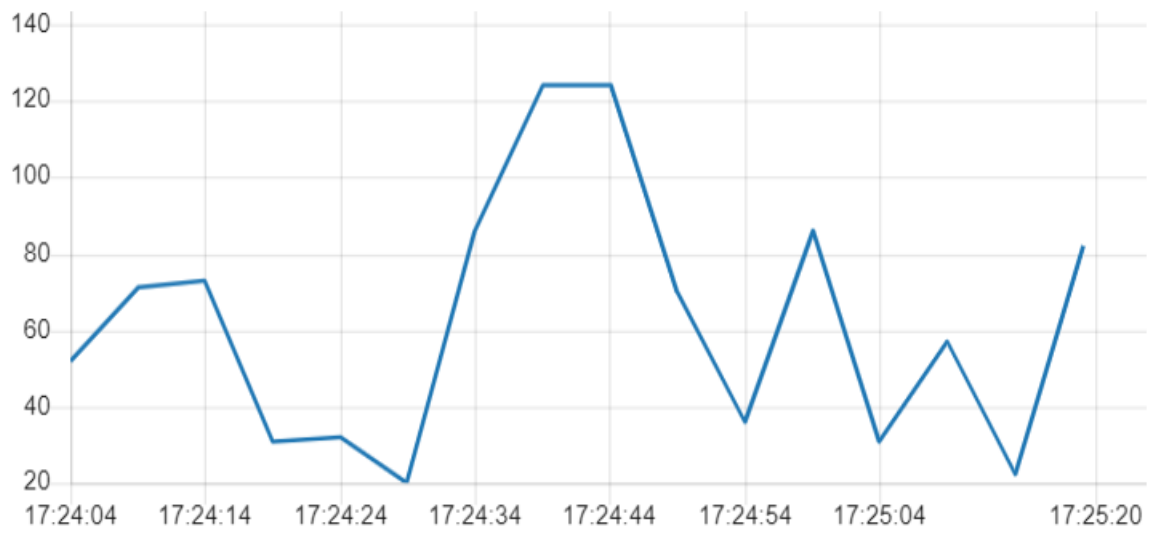
# NODE RED WORKFLOW-



# WEB UI-



Water Level



Light Intensity

