Assignment –3

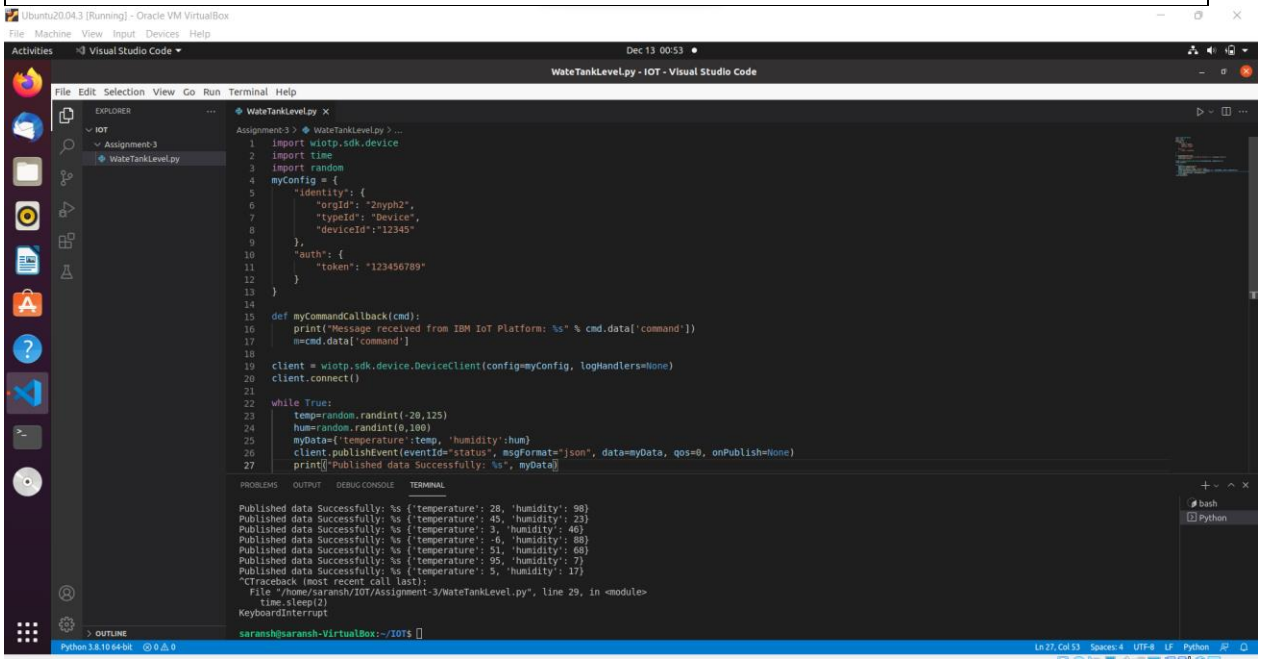
NAME – SARANSH PRATAP SINGH

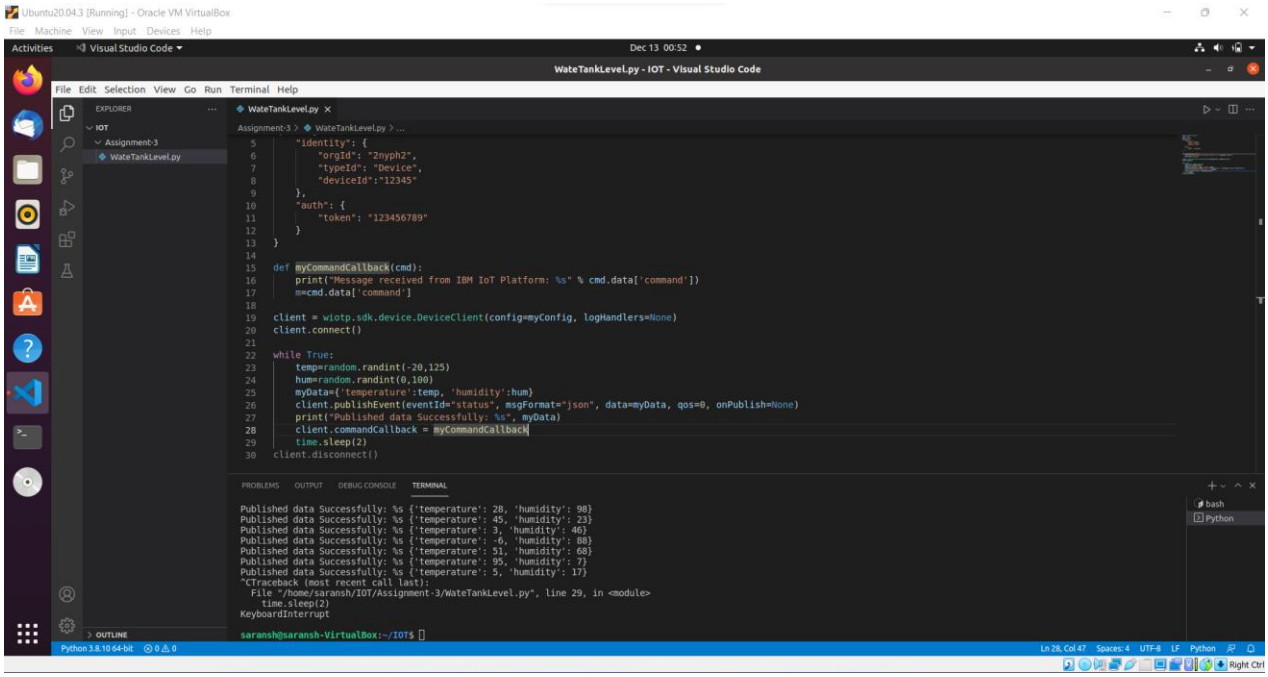
REGISTRATION NUMBER – 19BCY10035

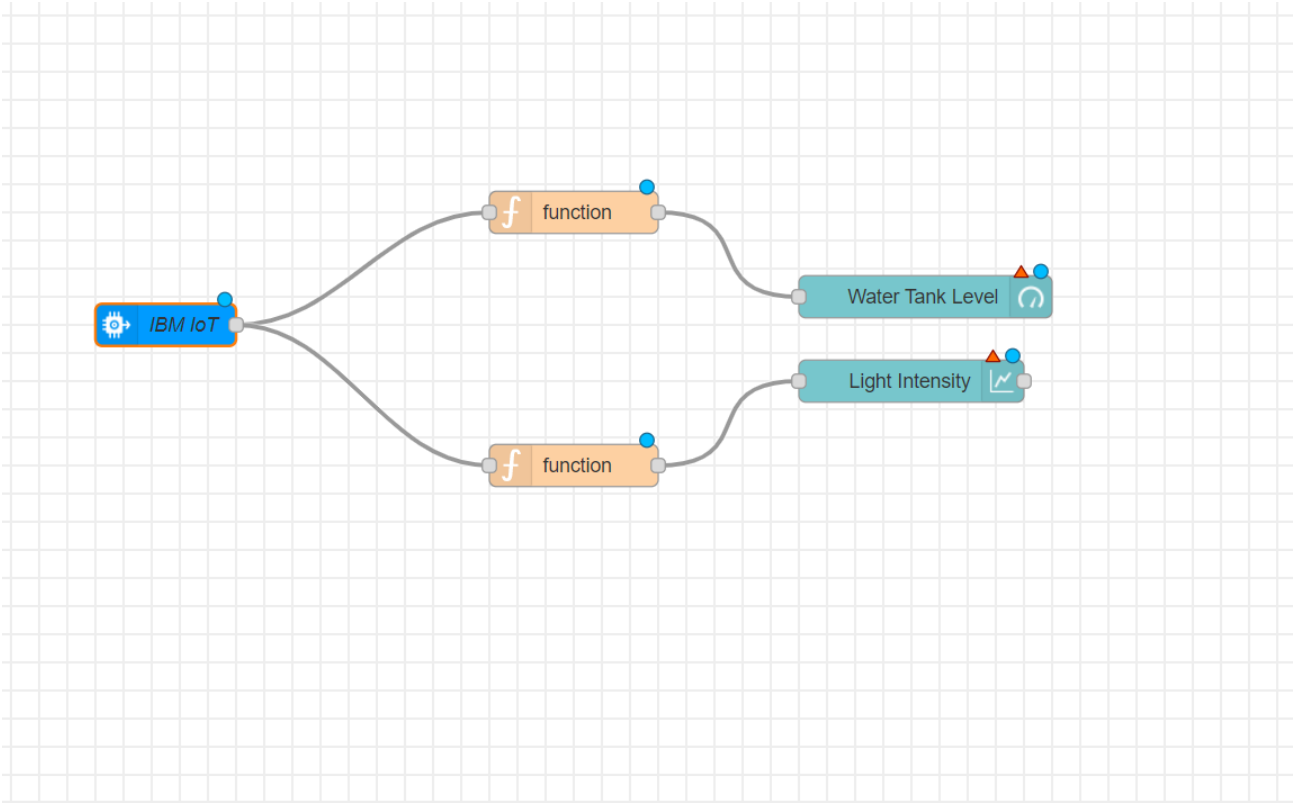
Q- Develop a code to upload the water tank level and light intensity values to the IBM IoT platform and visualize them in the web application.

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "2nyph2",
        "typeId": "Device",
        "deviceId":"12345"
    },
    "auth": {
        "token": "123456789"
    }
}


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:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    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()
```





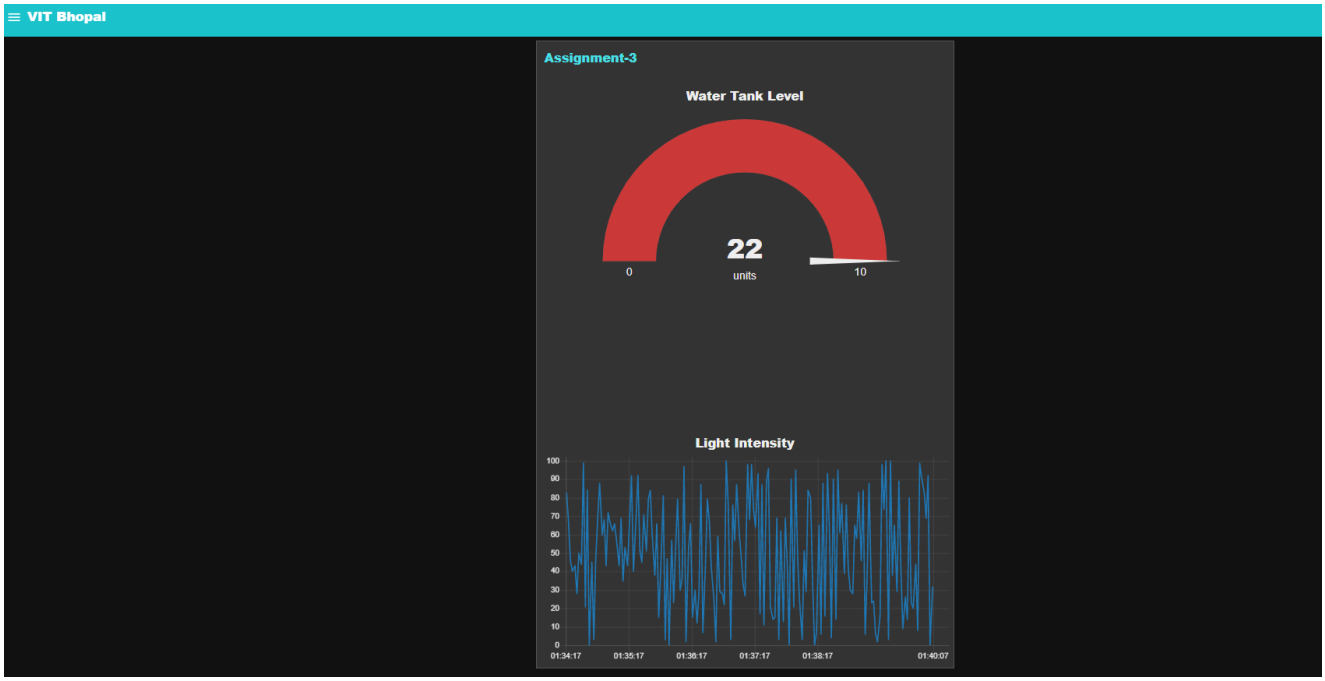


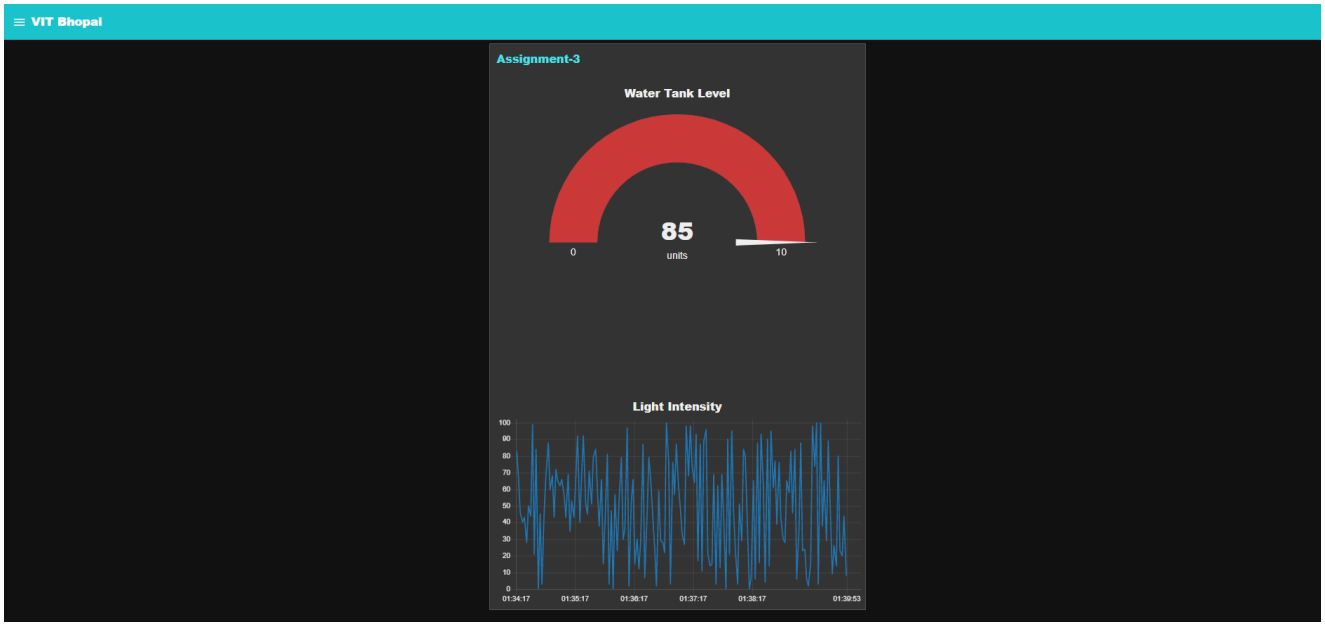
Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	Device	Device	12 Dec 2021 23:38	

Identity | Device Information | Recent Events | State | Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"temperature":12,"humidity":92}	json	a few seconds ago
status	{"temperature":-14,"humidity":78}	json	a few seconds ago
status	{"temperature":82,"humidity":50}	json	a few seconds ago
status	{"temperature":40,"humidity":13}	json	a few seconds ago
status	{"temperature":31,"humidity":61}	json	a few seconds ago


VIT Bhopal
Assignment-3
Water Tank Level
22
units
0
10
Light Intensity
100
90
80
70
60
50
40
30
20
10
0
01:34:17
01:35:17
01:36:17
01:37:17
01:38:17
01:40:07


VIT Bhopal
Assignment-3
Water Tank Level
85
units
0
10
Light Intensity
100
90
80
70
60
50
40
30
20
10
0
01:34:17
01:35:17
01:36:17
01:37:17
01:38:17
01:39:53