ASSIGNMENT – 3

NAME: G V R KAMESHWAR RAO

REG NO: 18BEC1094

PROBLEM STATEMENT: 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.

PYTHON CODE:

```python
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "6tj1mh",
        "typeId": "kameshwar",
        "deviceId":"18bec1094"
    },
    "auth": {
        "token": "01234567"
    }
}


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:
    intensity=random.randint(0,100)
    wtr_lvl=random.randint(0,100)
```

myData={'Light_intensity':intensity, 'Water level':wtr_lvl}

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

print("Published data Successfully: %s", myData)
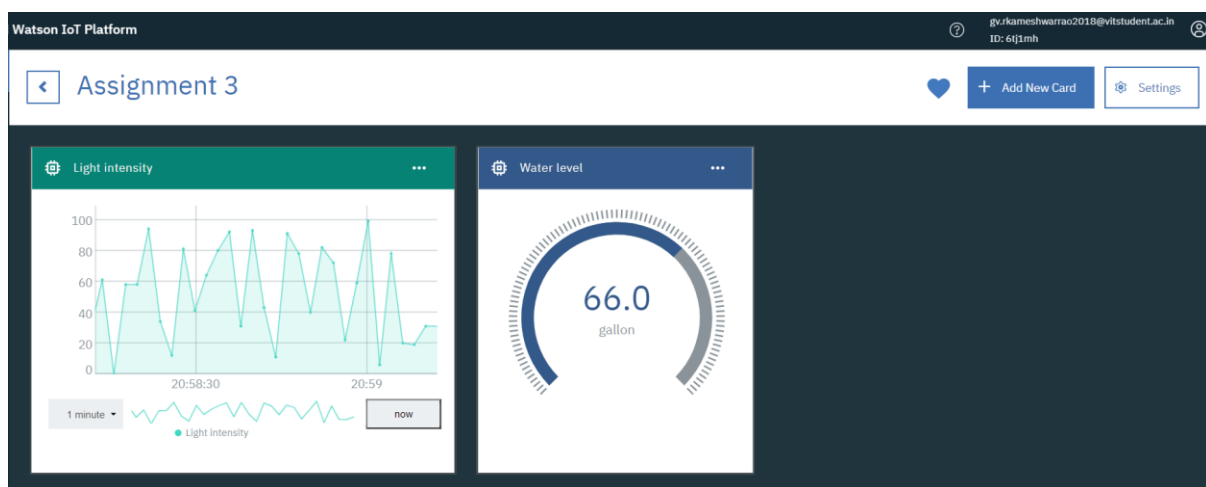
client.commandCallback = myCommandCallback

time.sleep(2)

client.disconnect()

OUTPUT:

IBM IOT PLATFORM:

SHELL:

```
>>>
 RESTART: C:/Users/Kameshwar/AppData/Local/Programs/Python/Python37-32/assign3.py
2021-07-18 20:57:55,027   wiotp.sdk.device.client.DeviceClient   INFO     Connected
successfully: d:6tj1mh:kameshwar:18bec1094
Published data Successfully: %s {'Light_intensity': 96, 'Water level': 12}
Published data Successfully: %s {'Light_intensity': 37, 'Water level': 65}
Published data Successfully: %s {'Light_intensity': 33, 'Water level': 86}
Published data Successfully: %s {'Light_intensity': 64, 'Water level': 62}
Published data Successfully: %s {'Light_intensity': 30, 'Water level': 15}
Published data Successfully: %s {'Light_intensity': 19, 'Water level': 25}
Published data Successfully: %s {'Light_intensity': 71, 'Water level': 59}
Published data Successfully: %s {'Light_intensity': 74, 'Water level': 77}
Published data Successfully: %s {'Light_intensity': 29, 'Water level': 91}
Published data Successfully: %s {'Light_intensity': 61, 'Water level': 86}
Published data Successfully: %s {'Light_intensity': 0, 'Water level': 16}
Published data Successfully: %s {'Light_intensity': 58, 'Water level': 83}
Published data Successfully: %s {'Light_intensity': 58, 'Water level': 89}
Published data Successfully: %s {'Light_intensity': 94, 'Water level': 40}
Published data Successfully: %s {'Light_intensity': 34, 'Water level': 54}
Published data Successfully: %s {'Light_intensity': 12, 'Water level': 23}
Published data Successfully: %s {'Light_intensity': 81, 'Water level': 58}
Published data Successfully: %s {'Light_intensity': 41, 'Water level': 23}
Published data Successfully: %s {'Light_intensity': 64, 'Water level': 71}
Published data Successfully: %s {'Light_intensity': 80, 'Water level': 16}
```