Python script to publish Data To IBM cloud

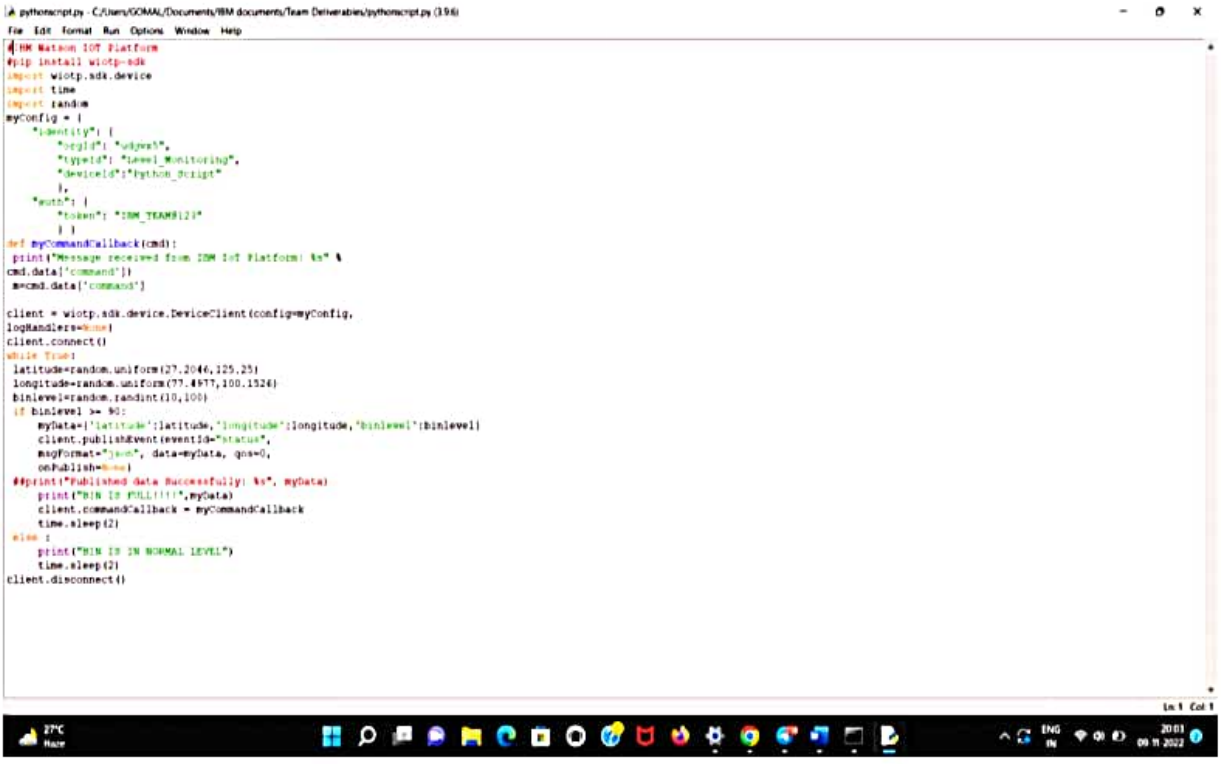
Date	30 November 2022
Team ID	PNT2022TMID40285
Title	Smart waste management system
Marks	8 Marks

PYTHON CODE:

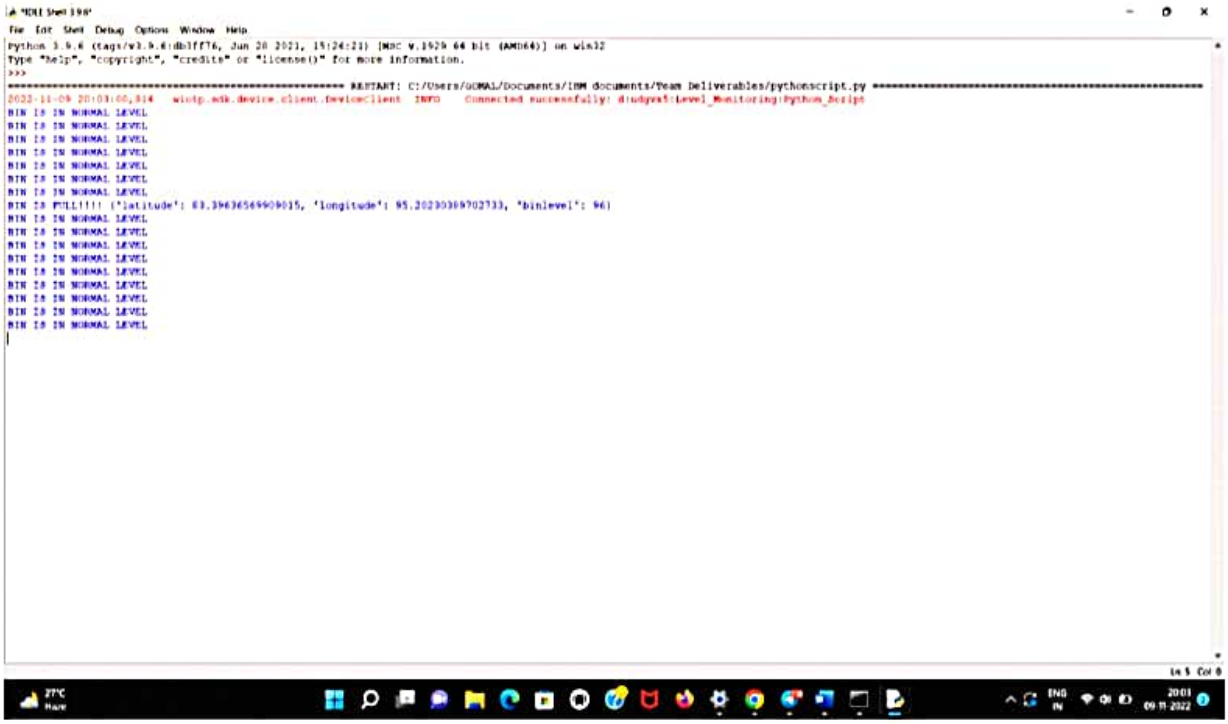
```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "udgvx5",
        "typeId": "Level_Monitoring",
        "deviceId":"Python_Script"
        },
    "auth": {
        "token": "IBM_TEAM@123"
        } }
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:
 latitude=random.uniform(27.2046,125.25)
 longitude=random.uniform(77.4977,100.1526)
```

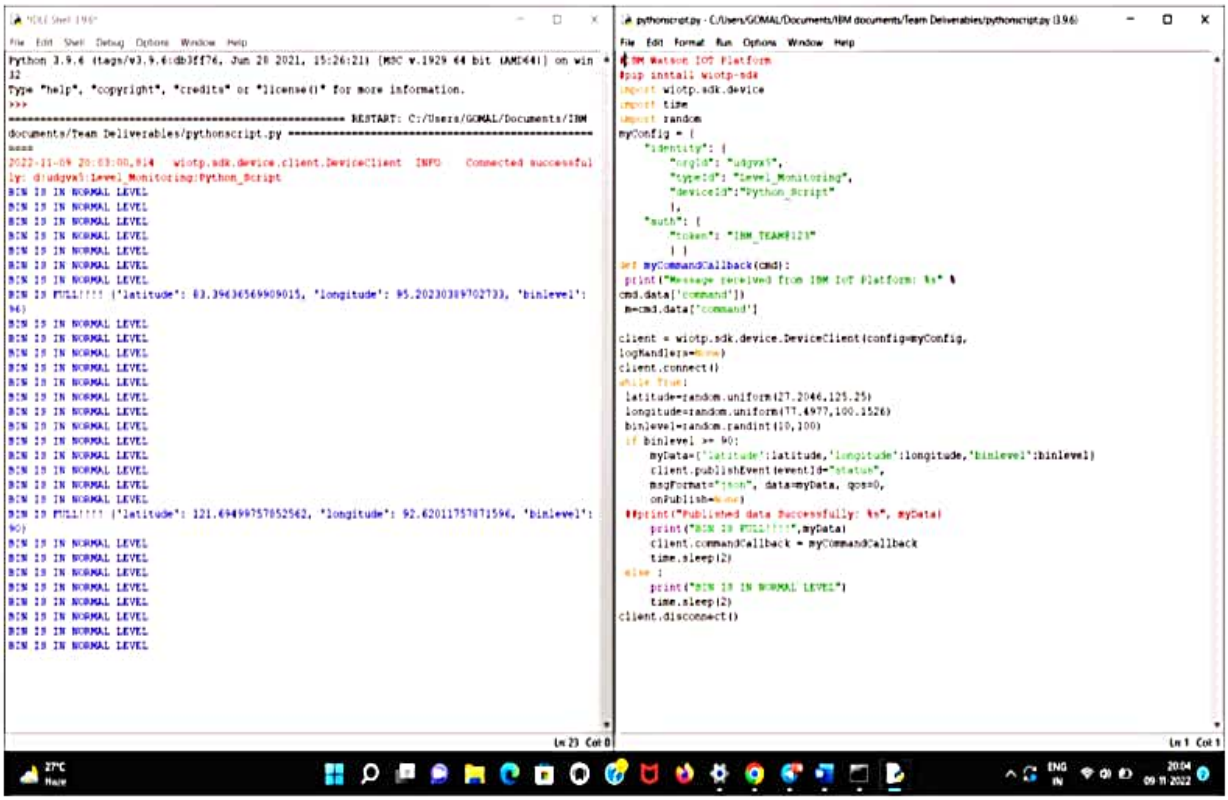
```
binlevel=random.randint(10,100)
if binlevel >= 90:
    myData={'latitude':latitude,'longitude':longitude,'binlevel':binlevel}
    client.publishEvent(eventId="status",
    msgFormat="json", data=myData, qos=0,
    onPublish=None)
##print("Published data Successfully: %s", myData)
    print("BIN IS FULL!!!!",myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
else :
    print("BIN IS IN NORMAL LEVEL")
    time.sleep(2)
client.disconnect()
```

PYTHON CODE:



PYTHON OUTPUT:





IBM WATSON OUTPUT: