PYTHON SCRIPT

Date	10 NOVEMBER 2022
Team ID	PNT2022TMID422266
Project Name	SMART WASTE MANAGEMENT SYSTEM IN METROPOLITAN CITIES

PYTHON CODE:

```python
#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device

import time

import random

myConfig = {

"identity": {

"orgId": "zpypic",

"typeId": "ESP-32",

"deviceId":"DHT-22"

},

"auth": {

"token": "Hari@321"

} }

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)
```

```python
        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()
```
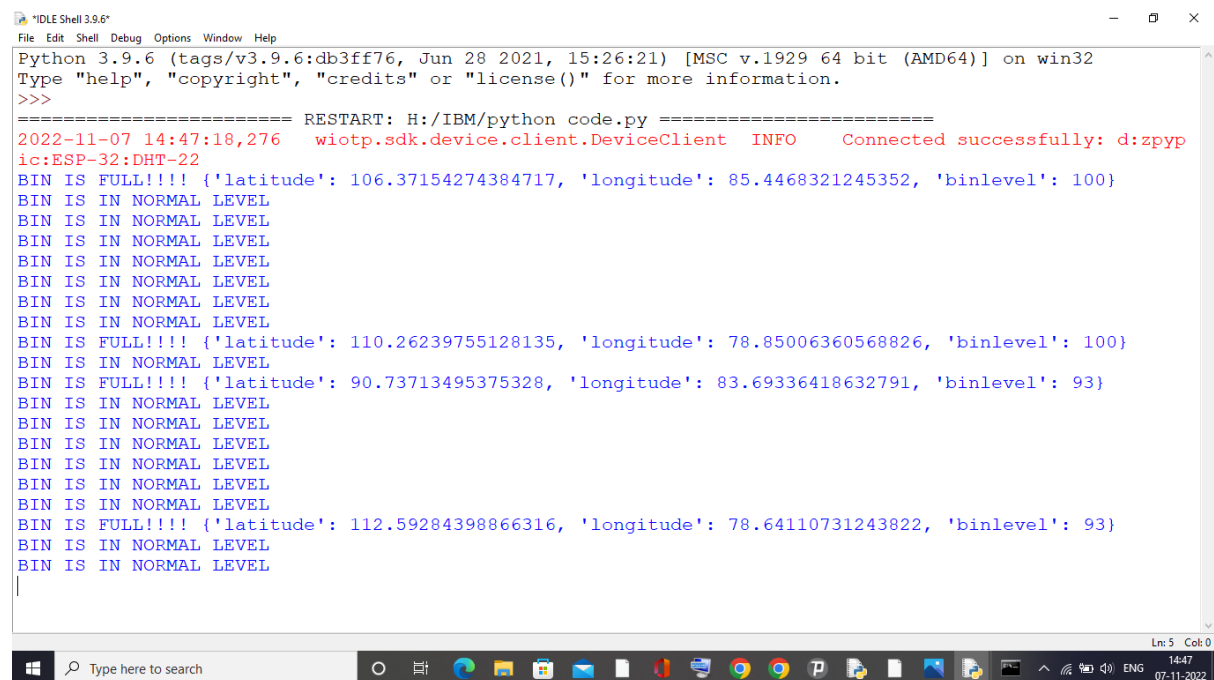
OUTPUT:

RESULT:

       Thus the python code for the smart waste management is coded and compiled successfully.