Develop The Python Script

| Team ID | PNT2022TMID22857 |
|--------------|-----------------------------------|
| Project Name | Smart Waste Management System For |
| | Metropolitan Cities |

TASK:

Develop a python code for publishing the location (latitude and longitude) data along with bin values to the IBM IoT Platform.

PYTHON CODE:

```
Binlocation.py - C:\Python\Python37\Binlocation.py (3.7.4)
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  import wiotp.sdk.device
 import time
 import requests
import urllib.parse
import urilib.parse
address= ['Kodambakkam','T.nagar','West mambalam','vadapalani','ekkattuthangal']
myConfig = {
    "identity": {
        "orgId": "dluuhi",
        "typeId": "SWMS",
        "deviceId":"6032"
}.
       },
"auth": {
"+oke"
                 "token": "311519106032"
 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()
 #Location=input("enter location: ")
 for x in address:
    url = 'https://nominatim.openstreetmap.org/search/' + urllib.parse.quote(x) +'?format=json'
    response = requests.get(url).json()
    a = response[1]["lat"]
b = response[1]["lon"]
    bin_stat = random.randint(0,100)
In_percent = str(bin_stat) + "%"
myData={'Latitude':a, 'Longitude':b, "Bin Status":In_percent}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
print("Published data Successfully: |", myData)
client.commandCallback = myCommandCallback
time_slape(2)
 time.sleep(2)
client.disconnect()
```

OUTPUT:

IBM WATSON CLOUD PLATFORM:



