## **PYTHON SCRIPT**

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

## **PYTHON CODE:**

```
#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)
```

```
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)
```

## **OUTPUT:**

```
File Edit Shell Debug Options Window Help
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information.
                        === RESTART: H:/IBM/python code.py ==
2022-11-07 14:47:18,276 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:zpyp
BIN IS FULL!!!! {'latitude': 106.37154274384717, 'longitude': 85.4468321245352, 'binlevel': 100}
BIN IS IN NORMAL LEVEL
BIN IS FULL!!!! { 'latitude': 110.26239755128135, 'longitude': 78.85006360568826, 'binlevel': 100}
BIN IS IN NORMAL LEVEL
BIN IS FULL!!!!!!!!!!!! ('latitude': 90.73713495375328, 'longitude': 83.69336418632791, 'binlevel': 93}
BIN IS IN NORMAL LEVEL
BIN IS FULL!!!! {'latitude': 112.59284398866316, 'longitude': 78.64110731243822, 'binlevel': 93}
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```

## **RESULT:**

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