PYTHON SCRIPT

TEAM ID	***PNT2022TMID45478***
PROJECT NAME	***PROJECT- SMART WASTE MANGEMENT FOR METROPOLITAN CITIES***

PYTHON SCRIPT:

```
import time
import sys

import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "ctmv6u"
deviceType = "NodeMCU"
deviceId = "106003"
authMethod = "token"
authToken = "123456789"

# Initialize GPIO

def myCommandcallback (cmd) :
    print ("Command received: %s" % cmd.data[ 'command' ])
    status=cmd.data['command']
    if status=="1ighton" :
        print ("led is on")
    else :
        print ("led is off")

# print(cmd)

try:
    deviceoptions = {"org": organization, "type": deviceType,"id": deviceId,"auth-
method":authMethod,"auth-token":authToken}
    deviceCli = ibmiotf.device.Client(deviceoptions)


except Exception as e:
    print ("caught exception connecting device: $s" % str(e))
```

```
    sys.exit ()

# Connect and send a datapoint “hello”  with value “world” •  into the cloud as an event of
type “greeting” •  10 times
deviceCli.connect ()

while True:
    #Get Sensor Data from DET11
    temp=random.randint (0,100)
    Humid=random. randint (0, 100)

    data = { 'temp': temp, 'Humid': Humid }
#print data
    def myonPublishCallback () :
        print ("Published Temperature = %s C" % temp, "Humidity = %s %%"% Humid, "to
IBM Watson")
    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myonPublishCallback)
    if not success:
        print ("Not connected to IoTF")
    time.sleep(1)

    devicecli.commandcallback = myCommandcallback

# Disconnect the device and application from the cloud
deviceCli.disconnect ()
```