PROJECT DEVELOPMENT PHASE DELIVERY OF - SPRINT 1

| TEAM ID | PNT2022TMID06962 |
|--------------|---------------------------------|
| PROJECT NAME | Smart Waste managmentsystem for |
| | metropolitan cities |

CODE

import random

import time

import sys

import ibmiotf.application

import ibmiotf.device

Provide your IBM Watson Device Credentials

organization = "48az6e" # repalce it with organization ID

deviceType = "DGGI" # replace it with device type

deviceId = "1234" # repalce with device id

authMethod = "token"

authToken = "12345678" # repalce with token

```
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
  if status == 'lighton':
    print("LIGHT ON")
  elif status == 'lightoff':
    print("LIGHT OFF")
  else:
    print ("please send proper command")
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()
deviceCli.connect()
while True:
  w = random.randint(0,100)
  1 = \text{random.randint}(0,100)
```

```
# Send Temperature & Humidity to IBM Watson
data = {'weight': w,'level':1}

# print data
def myOnPublishCallback():
    print("Published data",data, "to IBM Watson")

success = deviceCli.publishEvent("event", "json", data, 0, myOnPublishCallback)
if not success:
    print("Not connected to IoTF")
time.sleep(5)

deviceCli.commandCallback = myCommandCallback
```

Disconnect the device and application from the cloud

PROGRAM IN PYTHON IDE

devicecli.disconnect()

OUTPUT

