TEAM ID:PNT2022TMID29748

PROJECT TITLE:IoT based smart waste management in metropolitan cities

Python script:

Python script

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import time
```

import sys

import ibmiotf.application

import ibmiotf.device

import random

```
organization="7lnn7p"
```

devicetype="preethi"

deviceid="1436"

authMethod="token"

authToken="09876543211"

def myCommandCallback(cmd):

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print("Command received:%s"%cmd.data['command'])
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status=cmd.data['command']

if status =="lighton":

print("led in on")

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else:
      print("led is off")
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:
time.sleep(5)
Ultrasonic=random.randint(0,80)
Weight=random.randint(0,100)
lat=round(random.uniform(11.03,11.50),6)
 long=round(random.uniform(76.80,76.90),6)
  GPS=str(lat)+str(',')+str(long)
  myData={'Ultrasonic':Ultrasonic,'Weight':Weight,'GPS':GPS}
 def myOnpublishCallback():
    print("Published Ultrasonic=%sCm"%Ultrasonic,"Weight:%s
kg"%Weight,"GPS:%s"%GPS)
```

success=deviceCli.publishEvent("IoTSensor","json",data=myData,qos=0,on_publish=myOnpublishCallback)

if not success:

print("Not connected to IoTF")

time.sleep(1)

device Cli.command Callback = my Command Callback

deviceCli.disconnect()



