Develop a python script

Team id	PNT2022TMID46746
Project Name	PROJECT- SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

PROGRAM:

```
import ibmiotf.application
import ibmiotf.device
import time
import random
import sys
# watson device details
organization ="7tbblb"
devicType ="IBM1"
deviceId ="IBM1ID"
authMethod="use-token-auth"
authToken="123456789"
#generate random values for randomo variables (temperature&humidity)
def myCommandCallback(cmd):
 global a
 print("command recieved:%s"%cmd.data['command'])
 control=cmd.data['command']
 print(control)
try:
 deviceOptions={"org": organization, "type": devicType,"id":
deviceId,"authmethod":authMethod,"authtoken":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 "temp" with value integer value into the cloud as a type of
event for every 10 seconds
deviceCli.connect()
while True:
    distance= random.randint(10,70)
    loadcell= random.randint(5,15)
    data={'dist':distance,'load':loadcell}
    if loadcell < 13 and loadcell> 15:
        load = "90 %"
    elif loadcell < 8 and loadcell > 12:
        load = "60 %"
    elif loadcell < 4 and loadcell > 7:
        load = "40 %"
    else:
       load = "0 %"
    if distance < 15:
```

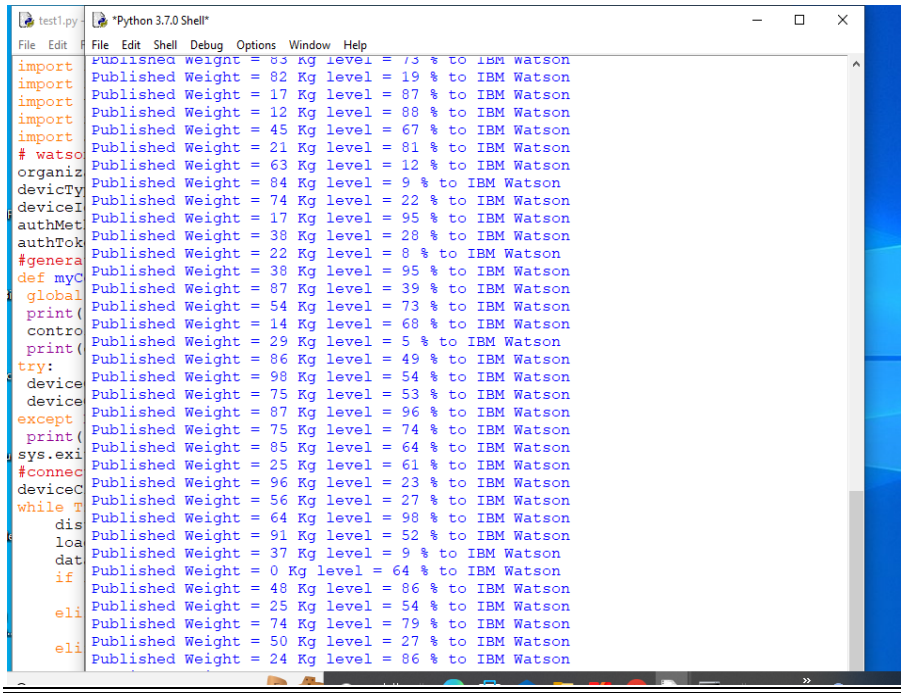
```
        dist = 'Risk warning:' 'Dumpster poundage getting high, Time to collect :) 90 %'
    elif distance < 40 and distance >16:
        dist = 'Risk warning:' 'dumpster is above 60%'
    elif distance < 60 and distance > 41:
         dist ='Risk warning:' '40 %'
    else:
        dist = 'Risk warning:' '17 %'
    if load == "90 %" or distance == "90 %":
        warn = 'alert :' ' Dumpster poundage getting high, Time to collect :)'
    elif load == "60 %" or distance == "60 %":
        warn = 'alert :"dumpster is above 60%'
    else :
        warn = 'alert :' 'No need to collect right now '
    def myOnPublishCallback(lat=10.678991,long=78.177731):
        print("Gandigramam, Karur")
        print("published distance = %s " %distance,"loadcell:%s "%loadcell,"lon = %s "
%long,"lat = %s" %lat)
        print(load)
        print(dist)
        print(warn)

    time.sleep(10)
    success=deviceCli.publishEvent
("IoTSensor","json",warn,qos=0,on_publish=myOnPublishCallback)
    success=deviceCli.publishEvent("IoTSensor","json",data,qos=0,on_publish=
myOnPublishCallback)
    if not success:
        print("not connected to ibmiot")
    time.sleep(30)



    deviceCli.commandCallback=myCommandCallback
#disconnect the device deviceCli.disconnect
```

python script:



IBM CLOUD OUTPUT: