Develop a python script

Team ID	PNT2022TMID29903	
PROJECT NAME	Smart waste management system	
	for metropolitan cities	

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Python script

```
import requests
import json
importibmiotf.application
import ibmiotf.device
import time
import random
import sys

# watson device details
   Organization="4yi0vc"
devicType = "BIN1"
deviceId = "BIN1ID"
```

```
authMethod=
                   "token"
authToken= "123456789"
#generate random values for randomo variables (temperature&humidity)
defmyCommandCallback(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()
 whileTrue:
 distance= random.randint(10,70)
                                     loadcell=
random.randint(5,15)
data= {'dist':distance,'load':loadcell}
 if loadcell< 13 and loadcell> 15:
        load = "90 %"
elifloadcell< 8 and loadcell> 12:
          load = "60 %"
elifloadcell< 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 '
defmyOnPublishCallback(lat=11.6395,long=78.1490):
        print("ANNATHANAPATTI, Salem")
     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
```