Develop a python script

Date	11 NOVEMBER 2022
Team ID	PNT2022TMID42919
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification

Step 1: Open python idleStep2:Typetheprogra m
Step 3: Then click on file and save the documentStep4:ThenclickonRun thenRunModule
Step5:outputwillbeappearedintheidlewindow

Pythonscript

```
import requestsimportj
son
import ibmiotf.applicationimport
ibmiotf.deviceimporttime import
randomimportsys

#watsondevicedetails

organization="4yi0vc"devicType =
"BIN1"deviceId =
"BIN1ID"authMethod=
"token"authToken="123456789"

#generaterandomvaluesforrandomovariables(temperature&humidity)
```

```
def
    myCommandCallback(cmd):
    globala print("commandrecieved:%s"%cmd.data['command'])contr
    ol=cmd.data['command']
    print(control)

try:
        deviceOptions={"org":organization,"type":devicType,"id":deviceId,"auth-method":authMethod,"auth-
token":authToken}
        deviceCli = ibmiotf.device.Client(deviceOptions)exceptExceptionase:
        print("caught exception connecting device %s"
        %str(e))sys.exit() #connectandsendadatapoint"temp"withvalueintegervalueintothecloudasatypeofeventforevery10secondsdeviceCli.connect()whileTrue:

    distance= random.randint(10,70)loadcell=r
    andom.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%"

ifdistance<15:
        dist='Riskwarning:"Dumpsterpoundagegettinghigh,Timetocollect:)90%'


elifdistance<40anddistance>16:
        dist='Riskwarning:"dumpsterisabove60%'

elifdistance<60and distance> 41:dist='Riskwarning:"40%'
else:
        dist='Riskwarning:"17%'



ifload=="90%"ordistance=="90%": warn='alert:"Dumpsterpoundagegettinghigh,Timetocollect:)'elifload=="60%"o

rdistance=="60%":

        warn= 'alert:' 'dumpsterisabove60%' warn='alert:"Noneedtocollectrightnow'
else:

def
    myOnPublishCallback(lat=10.678991,long=78.177731):print("Gandigramam,Karur")
    print("publisheddistance=%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)



        ifnotsuccess:
                print("not connected to
        ibmiot")time.sleep(30)



        deviceCli.commandCallback=myCommandCallback#disco
nnectthedevice
deviceCli.disconnect
```

ScreenshotsPythonscript: