Develop a python script

Team ID	PNT2022TMID07013
Project Name	Smart waste management system for metropolitan cities

Step 1: Open python idle

Step2: Type the program

Step 3: Then click on file and save the document

Step 4: Then click on Run then Run Module

Step 5: output will be appeared in the idle window

Python script

```
 import requests  import
json import ibmiotf.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)
   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 %":
```