PYTHON SCRIPT

TEAM ID	**PNT2022TMID48693**
PROJECT NAME	**PROJECT- Smart waste management system for metropolitan cities**

PYTHON SCRIPT:

```
import time import
sys

import ibmiotf.application
import ibmiotf.device import
random

#Provide your IBM Watson Device Credentials
organization = "fp3a19” deviceType = "sample"
deviceId = "123" authMethod = "token" authToken =
"Abcdefgh"

# Initialize GPIO

def myCommandcallback (cmd) :     print ("Command received: %s"
% cmd.data[ 'command' ])     status=cmd.data['command']     if
status=="1ighton" :         print ("led is on")     else :
        print ("led is off")

# print(cmd)

try:     deviceoptions = {"org": organization, "type": deviceType,"id":
deviceId,"auth-method":authMethod,"auth-token":authToken}
deviceCli = ibmiotf.device.Client(deviceoptions)
```

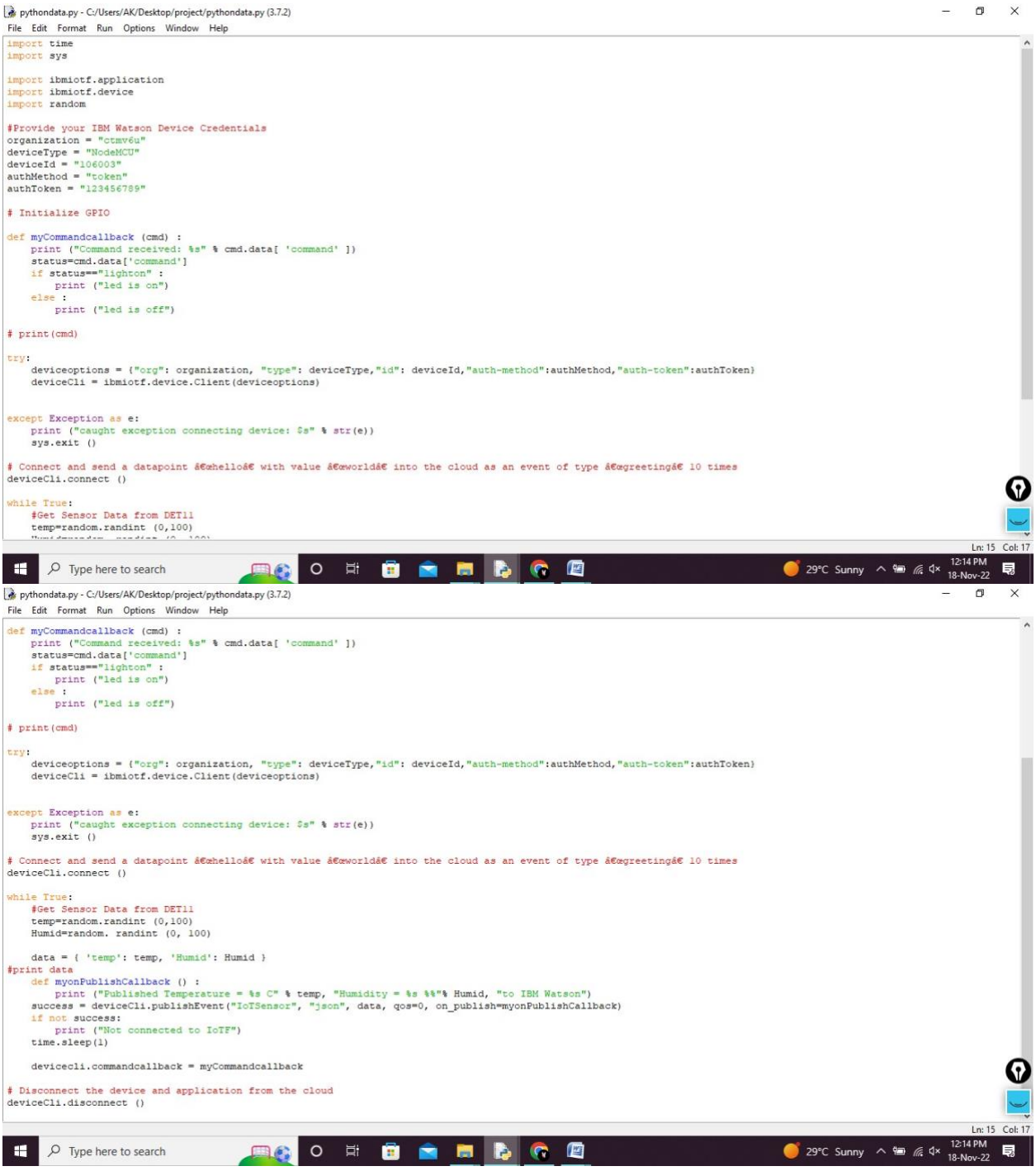
```
except Exception as e:
   print ("caught exception connecting device: $s" % str(e))     sys.exit ()

# Connect and send a datapoint “hello”• with value “world”• into the cloud as
an event of type “greeting”• 10 times deviceCli.connect ()

while True:
   #Get Sensor Data from DET11     temp=random.randint
(0,100)
   Humid=random. randint (0, 100)

   data = { 'temp': temp, 'Humid': Humid }
#print data     def myonPublishCallback () :         print ("Published Temperature
= %s C" % temp, "Humidity = %s
%%"% Humid, "to IBM Watson")     success =
deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myonPublishCallback)     if not success:         print ("Not connected
to IoTF")     time.sleep(1)

   devicecli.commandcallback = myCommandcallback SCREENSHOTS :
```



 # Disconnect the device and application from the cloud deviceCli.disconnect ()