DEVELOP A PYTHON SCRIPT

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PROJECT:	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES
MAXIMUM MARKS:	4 MARKS

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CODE:
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "i1kqwd"
deviceType = "abcd"
deviceId = "12345"
authMethod = "token"
authToken = "@12345678"
# Initialize GPIO
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
  if status=="lighton":
    print ("led is on")
  elif status == "lightoff":
    print ("led is off")
  else:
    print ("please send proper command")
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 DHT11
    dist =random.randint(30,100)
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weight =random.randint(10,50)

data = { 'distance' : dist, 'Weight': weight}
    #print data
    def myOnPublishCallback():
        print ("Published Distance = %s cm" % dist, "Weight = %s kg " % weight, "to IBM Watson")

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

deviceCli.commandCallback = myCommandCallback

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