Publish Data to IBM cloud

Team ID	PNT2022TMID31031
Project Name	Smart waste management system for metropolitan cities

Steps:

Step 1: Open python idle.

Step 2: Type the program.

Step 3: Then click on the file and save the document.

Step 4: Then click on run and run the module.

Step 5: Output will be appeared in the idle window.

Python code:

```
import time
import sys
import ibmiotf.device
import random

organization="gpx238"
deviceType="NodeMCU"
deviceId="123456"
authMethod="token"
authToken="12345678"
```

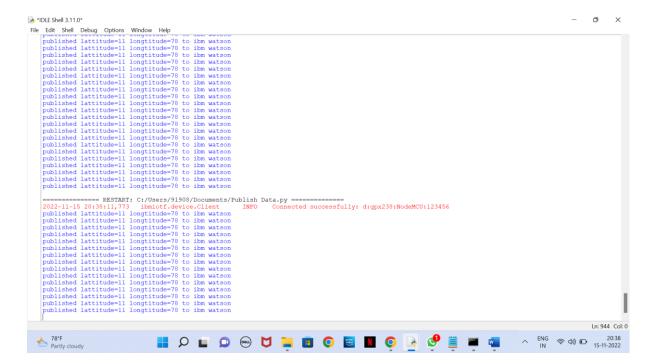
try:

```
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()
```

```
deviceCli.connect()
while True:
                               #in data
                               lattitude=11.7345;
                               longtitude=78.2020;
                               #out data
                               #lattitude=12.7345;
                               #longtitude=79.2020;
                               data={'lattitude':lattitude,'longtitude':longtitude}
                               def myOnPublishCallback():
                                    print("published lattitude=%d" %lattitude,"longtitude=%d" %longtitude,"to ibm
watson")
success=deviceCli.publishEvent("IotSensor","json",data,qos=0,on\_publish=myOnPublishCalling("IotSensor","json",data,qos=0,on\_publish=myOnPublishCalling("IotSensor","json",data,qos=0,on\_publish=myOnPublishCalling("IotSensor","json",data,qos=0,on\_publish=myOnPublishCalling("IotSensor","json",data,qos=0,on\_publish=myOnPublishCalling("IotSensor","json",data,qos=0,on\_publish=myOnPublishCalling("IotSensor","json",data,qos=0,on\_publish=myOnPublishCalling("IotSensor","json",data,qos=0,on\_publish=myOnPublishCalling("IotSensor","json",data,qos=0,on\_publish=myOnPublishCalling("IotSensor","json",data,qos=0,on\_publish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOnPublish=myOn
lback)
                               if not success:
                                           print("Not connected to IoTF")
                              time.sleep(3)
deviceCli.disconnect()
```

Screenshots:

Python code



Output screen (Data published)