PYTHON SCRIPT

| Team ID: PNT2022TMID32725 |
|---------------------------|
| Python Code: |
| import time |
| import sys |
| import random |
| import ibmiot.application |
| import ibmiot.device |
| organization = "o86xnz" |
| deviceType = "Sensor" |
| deviceId = "123456" |
| authMethod = "auth" |
| authToken = "Ferdina22" |
| |
| |

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:
  temp=random.randint(0,100)
  Humid=random.randint(0,100)
  Gas=random.randint(0,100)
  data = { 'temp' : temp, 'Humid': Humid, 'Gas':gas }
```

```
def myOnPublishCallback():
    print ("Published Temperature = %s C" % temp, "Humidity
= %s %%" %Humid, "Gas Concentration = %s" %Gas )
 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
deviceCli.disconnect()
```

Output:

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