DEVELOP A PYTHON SCRIPT

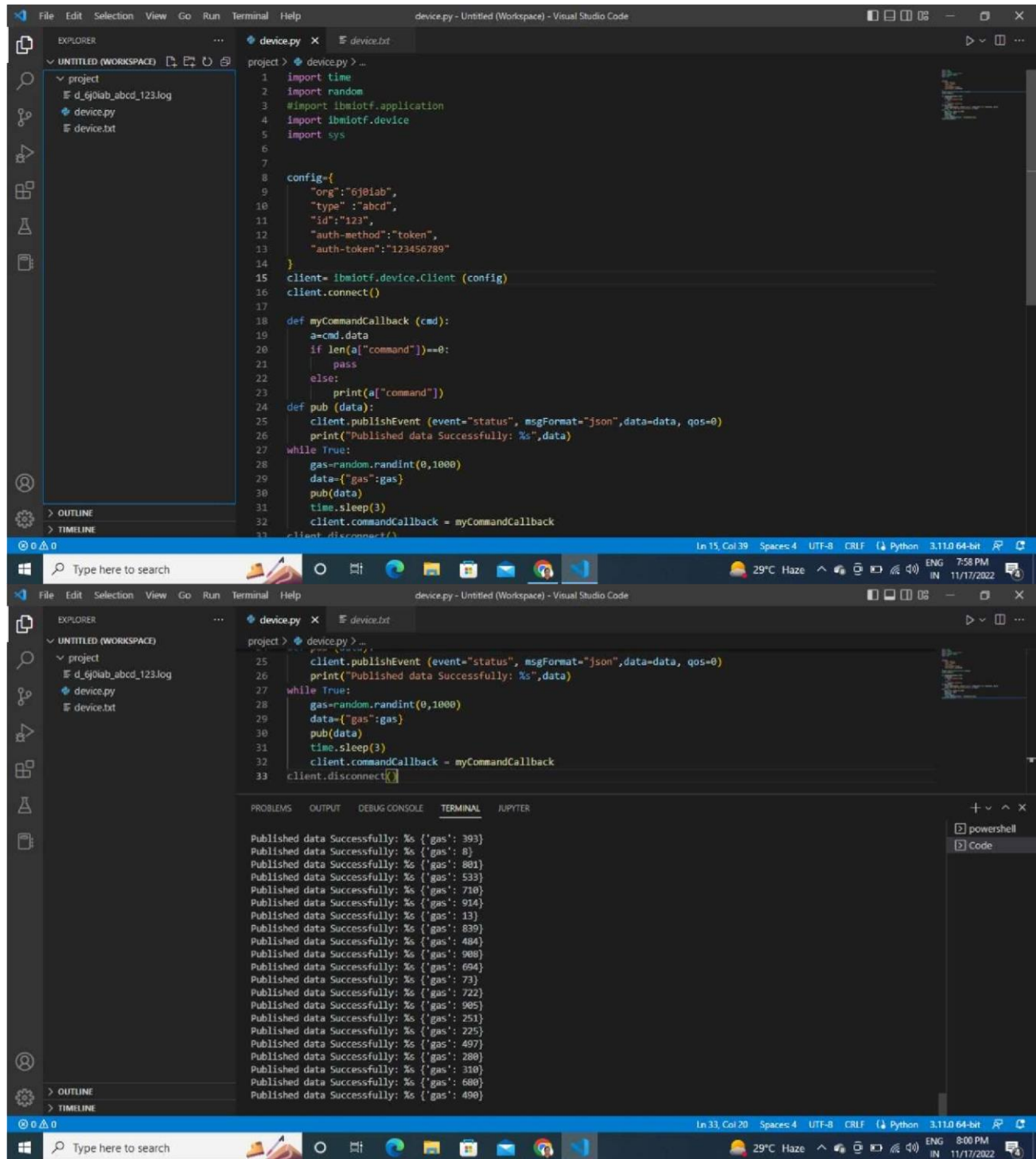| Team ID	PNT2022TMID20041
Project Name	Project – Gas Leakage Monitoring and Alerting System
Team members	Dhakshanya D , Dharun Prasad V , Divya Devi M.A , Divya L

PYTHON CODE:

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


config={
    "org":"6j0iab",
    "type" :"abcd",
    "id":"123",
    "auth-method":"token",
    "auth-token":"123456789"
} client= ibmiotf.device.Client
(config) client.connect()

def myCommandCallback (cmd):
a=cmd.data     if
len(a["command"])==0:
    pass
else:
    print(a["command"])
def pub (data):
  client.publishEvent (event="status", msgFormat="json",data=data,
qos=0)    print("Published data Successfully: %s",data) while True:
  gas=random.randint(0,1000)
data={"gas":gas}    pub(data)
time.sleep(3)
  client.commandCallback = myCommandCallback
client.disconnect()
```

```python
import time
import random
#import ibmiotf.application
import ibmiotf.device
import sys


config={
    "org":"6j0iab",
    "type" :"abcd",
    "id":"123",
    "auth-method":"token",
    "auth-token":"123456789"
}
client= ibmiotf.device.Client (config)
client.connect()

def myCommandCallback (cmd):
    a=cmd.data
    if len(a["command"])==0:
        pass
    else:
        print(a["command"])
def pub (data):
    client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)
while True:
    gas=random.randint(0,1000)
    data={"gas":gas}
    pub(data)
    time.sleep(3)
    client.commandCallback = myCommandCallback
client.disconnect()
```

Terminal output:

```
Published data Successfully: %s {'gas': 393}
Published data Successfully: %s {'gas': 8}
Published data Successfully: %s {'gas': 801}
Published data Successfully: %s {'gas': 533}
Published data Successfully: %s {'gas': 710}
Published data Successfully: %s {'gas': 914}
Published data Successfully: %s {'gas': 13}
Published data Successfully: %s {'gas': 839}
Published data Successfully: %s {'gas': 484}
Published data Successfully: %s {'gas': 908}
Published data Successfully: %s {'gas': 694}
Published data Successfully: %s {'gas': 73}
Published data Successfully: %s {'gas': 722}
Published data Successfully: %s {'gas': 905}
Published data Successfully: %s {'gas': 251}
Published data Successfully: %s {'gas': 225}
Published data Successfully: %s {'gas': 497}
Published data Successfully: %s {'gas': 280}
Published data Successfully: %s {'gas': 310}
Published data Successfully: %s {'gas': 680}
Published data Successfully: %s {'gas': 490}
```

IBM Watson IoT Platform

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Browse   Action   Device Types   Interfaces

Add Device ⊕

⌄ ☐   123   ● Connected   abcd   Device   17 Nov 2022 12:12   → ...

Identity   Device Information   Recent Events   State   Logs   ✕

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"gas":347}	json	a few seconds ago
status	{"gas":586}	json	a few seconds ago
status	{"gas":185}	json	a few seconds ago
status	{"gas":650}	json	a few seconds ago
status	{"gas":795}	json	a few seconds ago