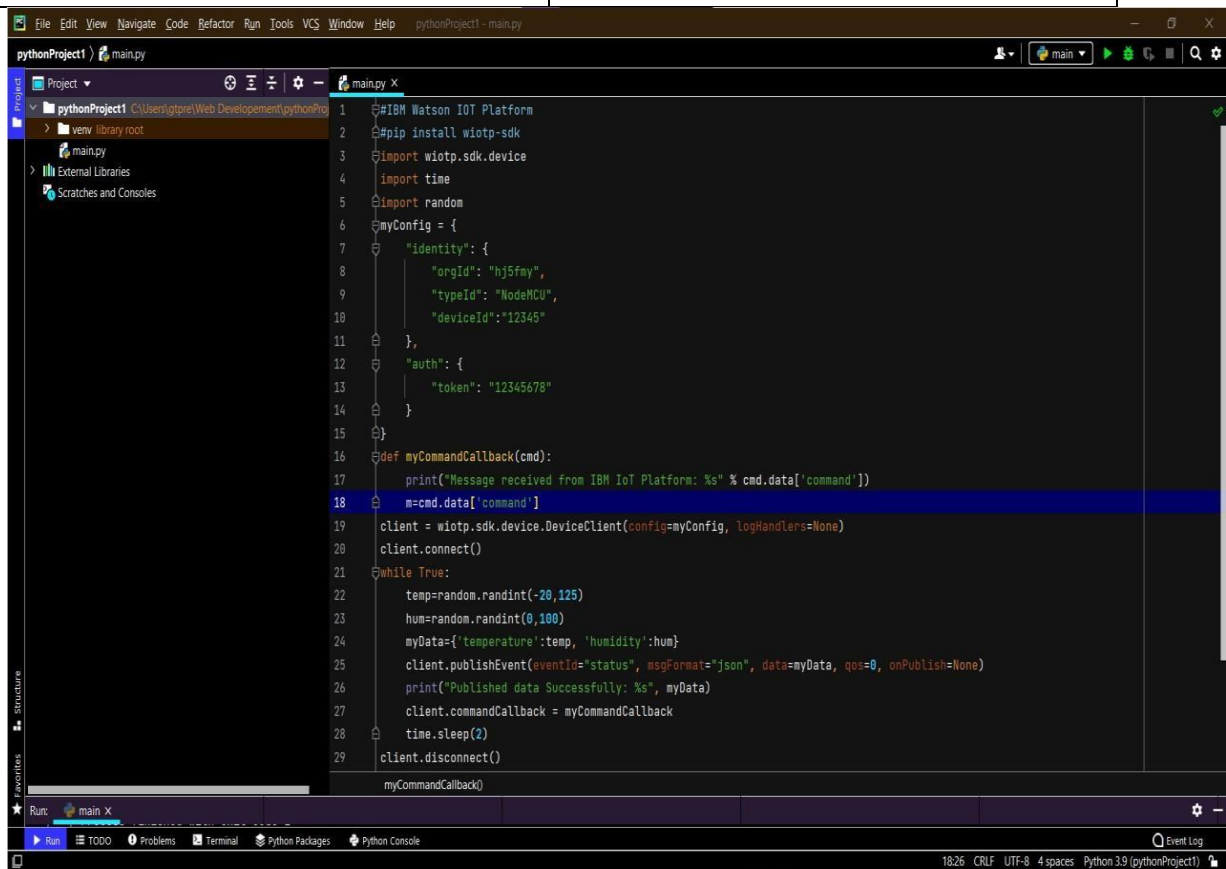


Develop a Python Script

Team Id	PNT2022TMID17322
Project Name	Hazardous area monitoring for industrial plant powered by IOT
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The screenshot shows a Python IDE with a project named 'pythonProject1'. The file 'main.py' is open, displaying a script that interacts with the IBM Watson IoT Platform. The script includes comments for installation and imports for the IoT SDK, time, and random modules. It defines a configuration dictionary 'myConfig' with identity and authentication details. A callback function 'myCommandCallback' is defined to handle incoming commands. The main logic involves connecting to the IoT platform, publishing sensor data (temperature and humidity) in JSON format, and handling a command received from the platform. The script uses a while loop to continuously publish data and check for commands.

```
1 #IBM Watson IoT Platform
2 #pip install wiotp-sdk
3 import wiotp.sdk.device
4 import time
5 import random
6 myConfig = {
7     "identity": {
8         "orgId": "hj5fmy",
9         "typeId": "NodeMCU",
10        "deviceId": "12345"
11    },
12    "auth": {
13        "token": "12345678"
14    }
15 }
16 def myCommandCallback(cmd):
17     print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
18     m=cmd.data['command']
19 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
20 client.connect()
21 while True:
22     temp=random.randint(-20,125)
23     hum=random.randint(0,100)
24     myData={'temperature':temp, 'humidity':hum}
25     client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
26     print("Published data Successfully: %s", myData)
27     client.commandCallback = myCommandCallback
28     time.sleep(2)
29 client.disconnect()
30 myCommandCallback()
```