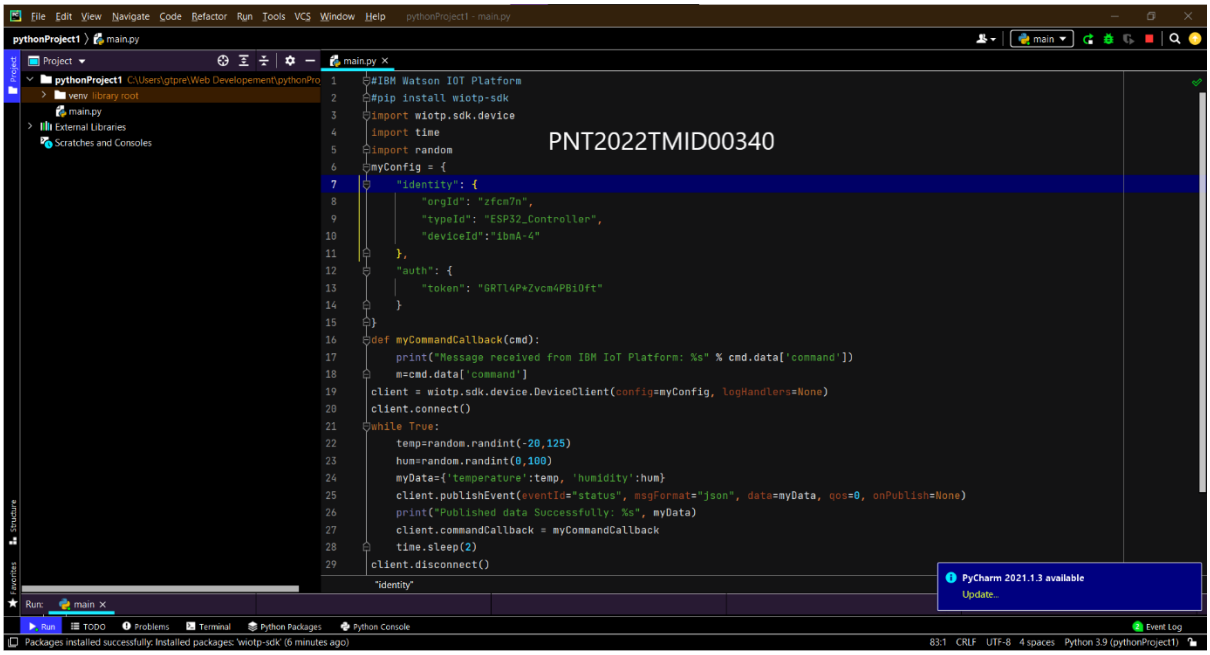
Publish Data to the IBM Cloud

Team ID	PNT2022TMID00340
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT

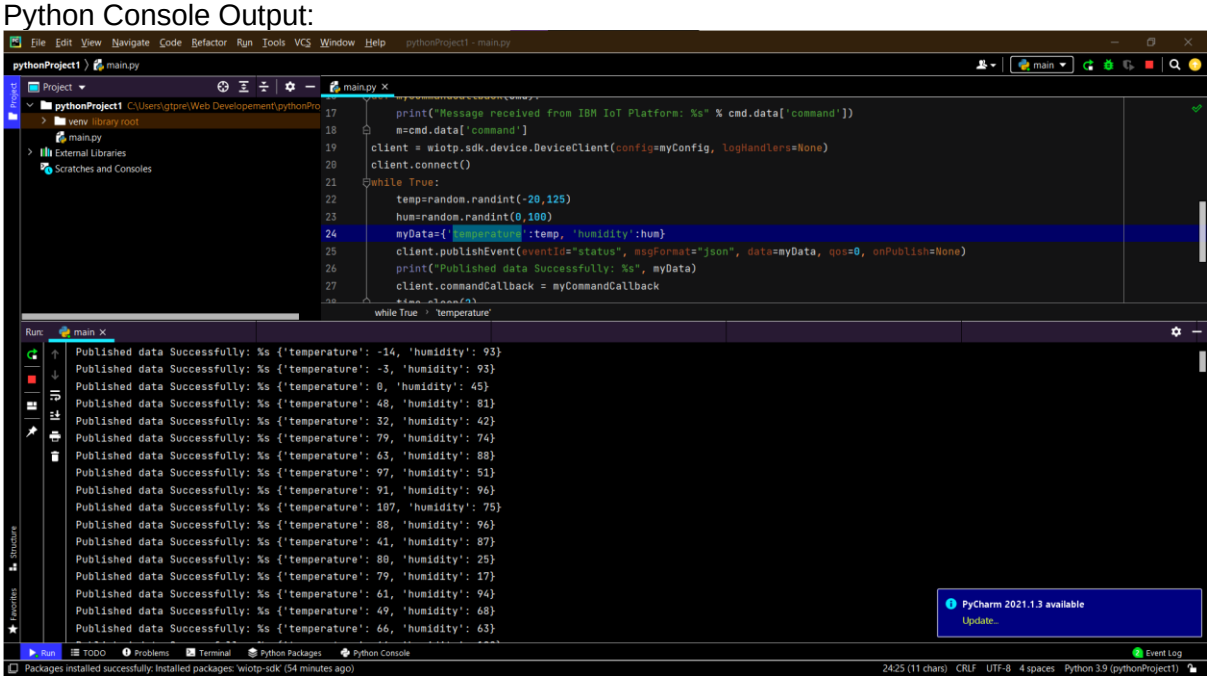
Python Code:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "zfcm7n",
        "typeId": "ESP32_Controller",
        "deviceId":"ibmA-4"
    },
    "auth": {
        "token": "GRTl4P*Zvcm4PBiOft"
    }
}
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

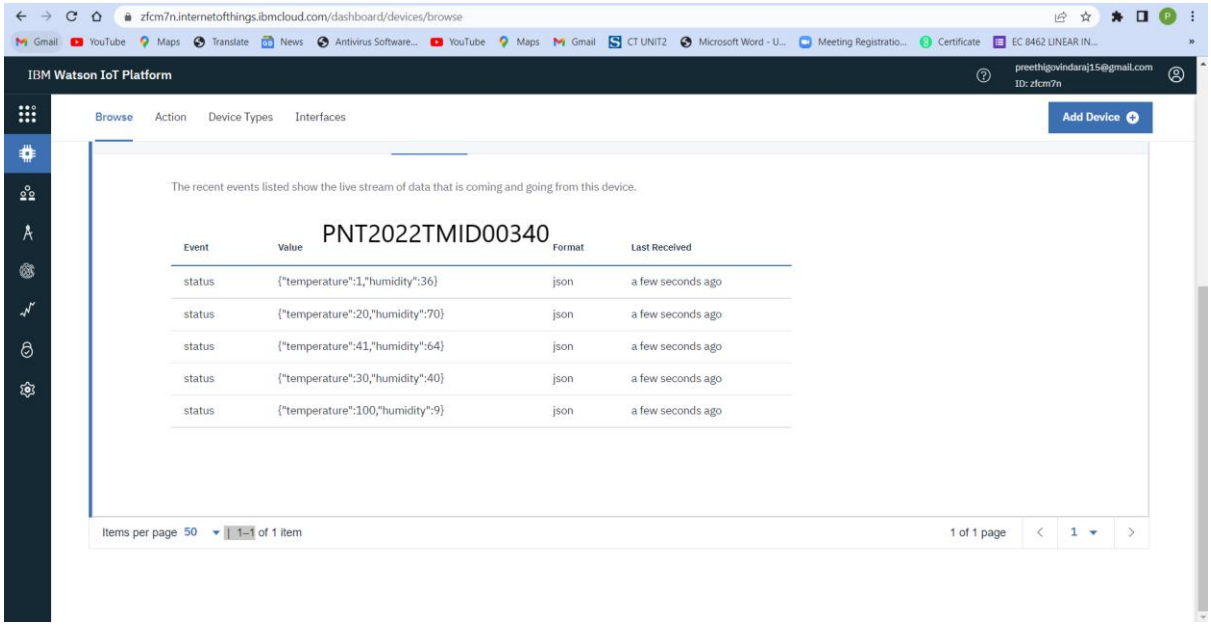
Python Code:



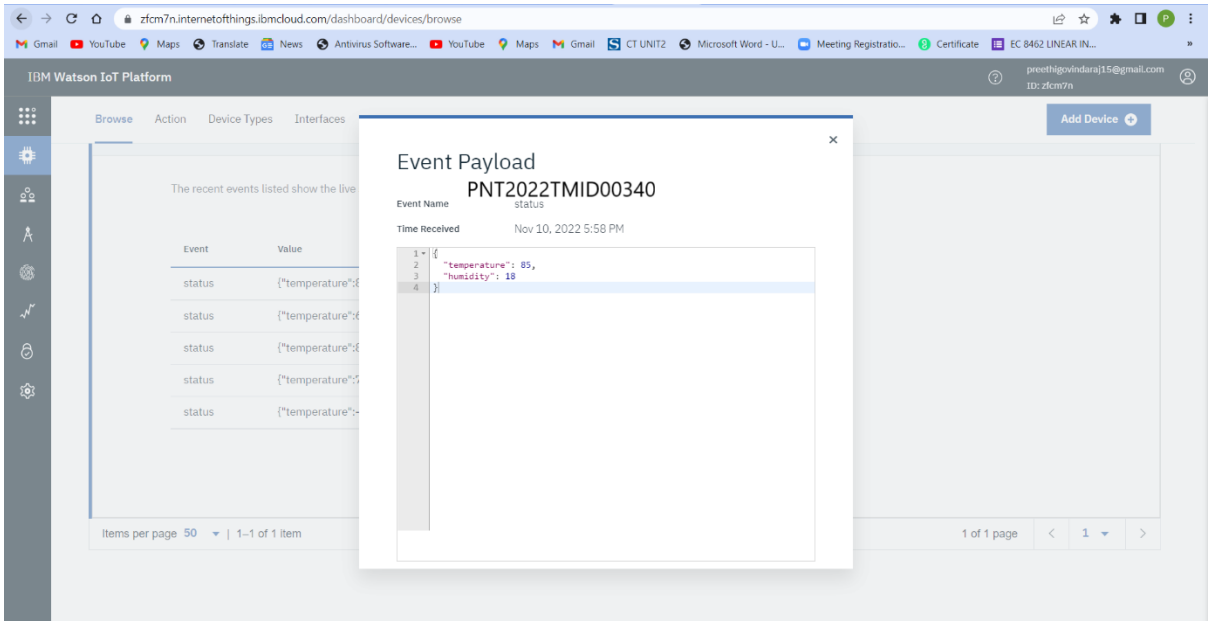
Python Console Output:



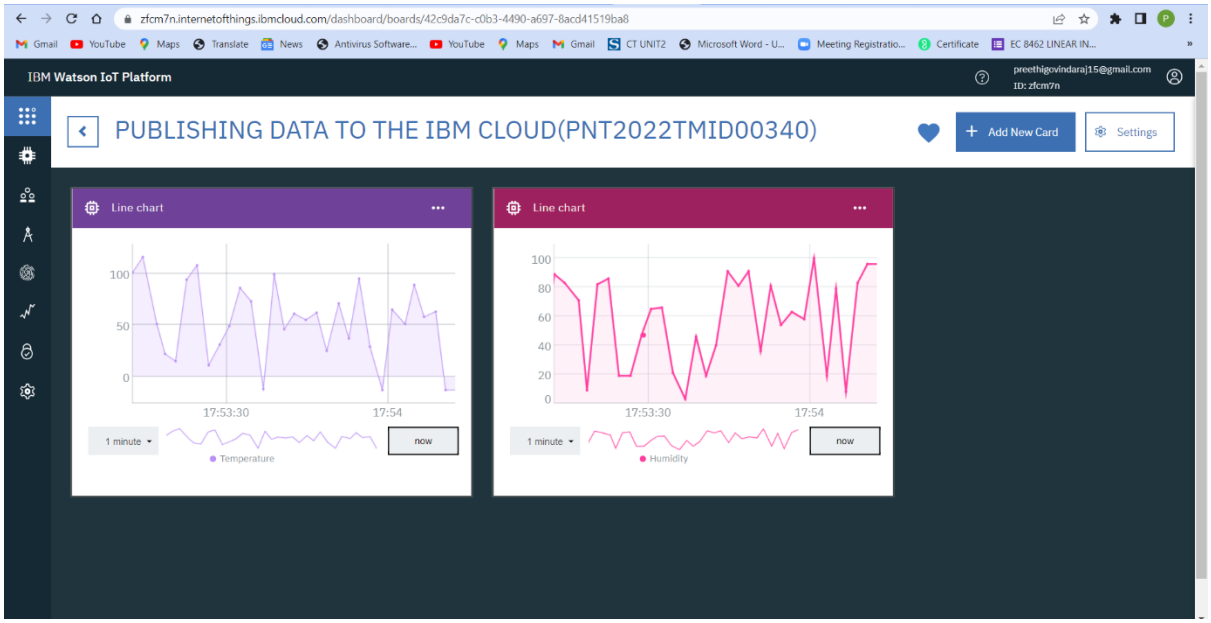
IBM WATSON PLATFORM DEVICE-EVENT LOG:



IBM WATSON PLATFORM DEVICE-EVENT PAYLOAD:



IBM WATSON PLATFORM DEVICE-BOARD:



IBM CLOUDANT DB DATA LOG: