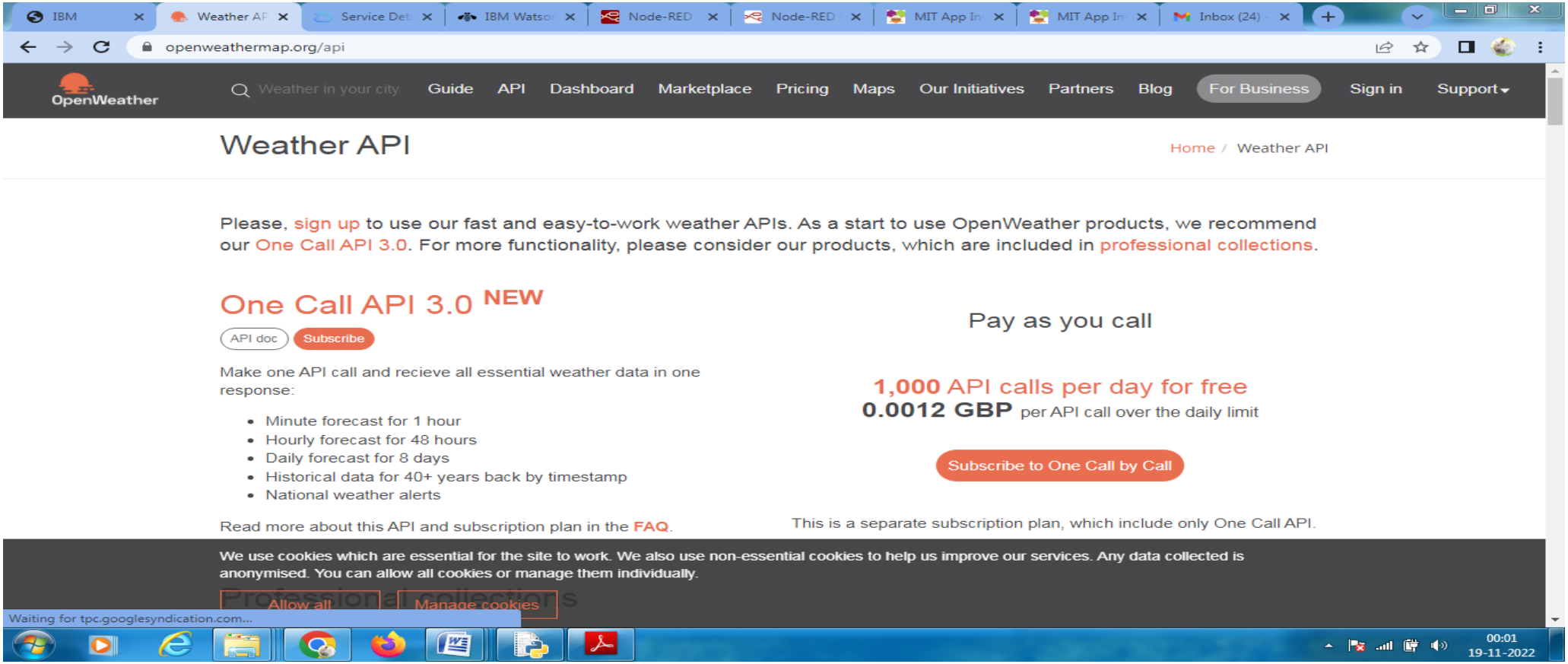
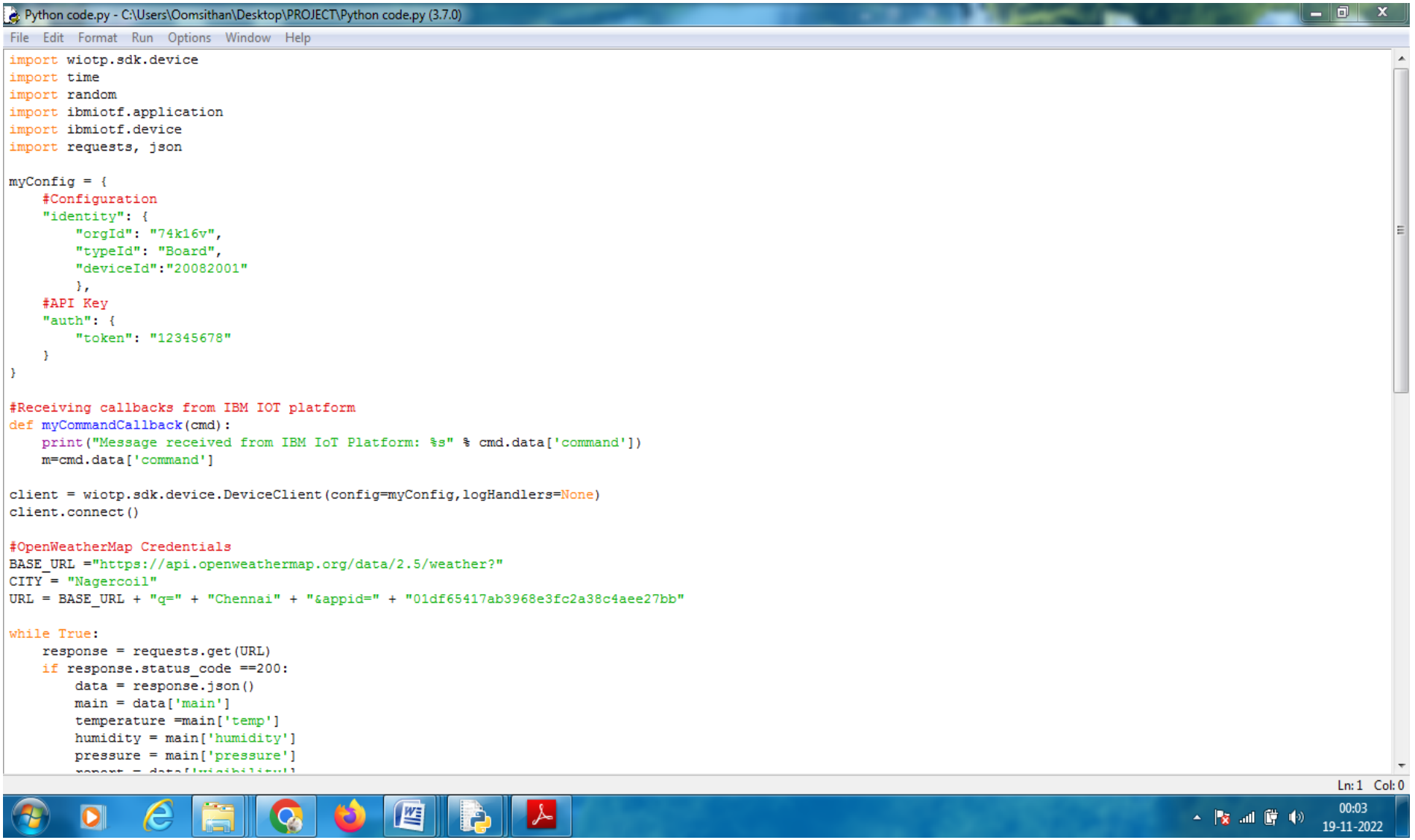
Project Milestone and Tasks
Develop A Python Script

Date	24 October 2022
Team ID	PNT2022TMID41539
Project Name	Project-Signs with Smart Connectivity for Better Road Safety
Maximum marks	4 Marks

Extract weather data from OpenWeatherMap using APIs



Python Script Developed



Python code.py - C:\Users\Oomsithan\Desktop\PROJECT\Python code.py (3.7.0)

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```
    response = requests.get(URL)
    if response.status_code ==200:
        data = response.json()
        main = data['main']
        temperature =main['temp']
        humidity = main['humidity']
        pressure = main['pressure']
        report = data['visibility']

        #messge part
        msg=random.randint(0,5)
        if msg==1:
            message="MESSAGE: SLOW DOWN, SCHOOL IS NEAR"
        elif msg==3:
            message="MESSAGE: SLOW DOWN, HOSPITAL NEARBY"
        elif msg==5:
            message="NEED HELP, POLICE STATION NEARBY"
        else:
            message=""

        #Speed part
        speed=random.randint(0,150)
        if speed>=100:
            speedMsg="SPEED MESSAGE: SLOW DOWN, speed Limit Exceeded"
        elif speed>=60 and speed<100:
            speedMsg="SPEED MESSAGE: Moderate"
        else:
            speedMsg="SPEED MESSAGE: Slow"

        #Sign part
        sign=random.randint(0,5)
        if sign==1:
            signMsg="SIGN: Right Diversion"
        elif sign==3:
            signMsg="SIGN: Left Diversion"
        elif sign==5:
            signmsg="SIGN: U Turn"
        else:
            signMsg=""

        #Visibility
        if temperature < 50:
```

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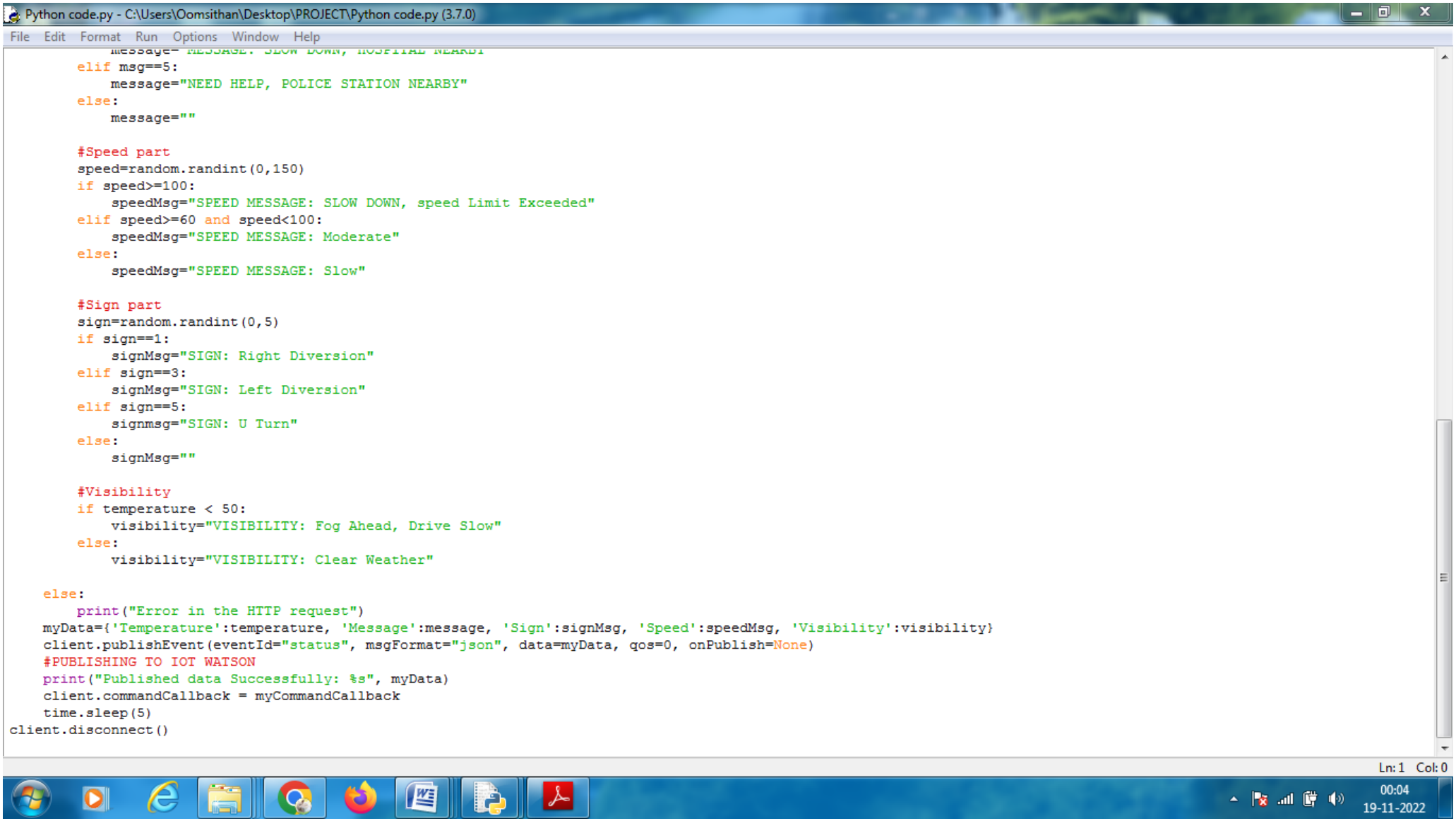

Send the extracted data to the cloud by running the code

Receive data from the cloud and view it in the python compiler(Python code output)