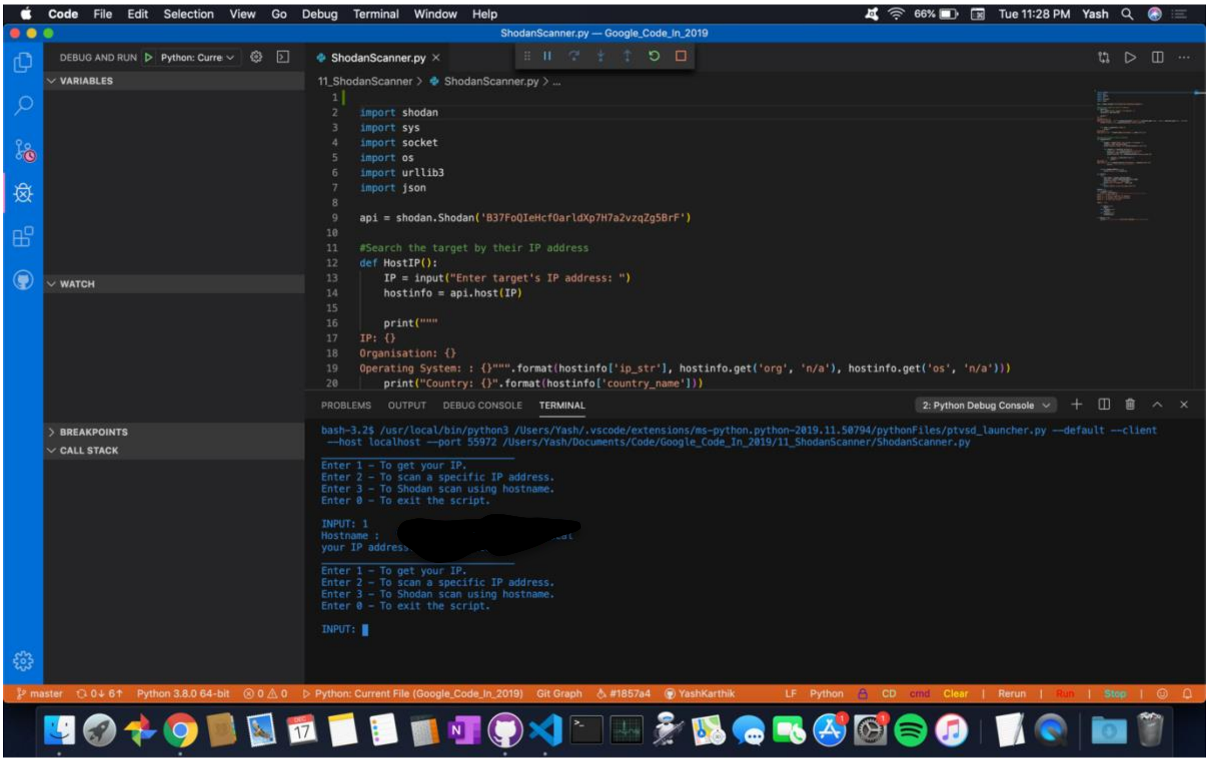
Shodan API Attacks

There were various attacks I performed on the site 'hackthissite.org' and its relatives.

Part 1:

Simple enough I found my devices IP address.



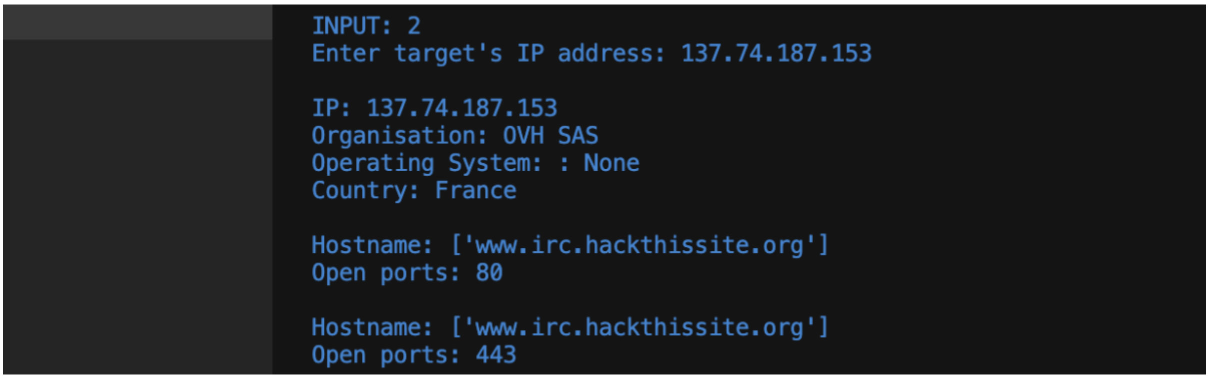
```
import shodan
import sys
import socket
import os
import urllib3
import json

api = shodan.Shodan('B37FoQIeHcfOarldXp7H7a2vzqZg5BrF')

#Search the target by their IP address
def HostIP():
    IP = input("Enter target's IP address: ")
    hostinfo = api.host(IP)

    print("""
IP: {}
Organisation: {}
Operating System: : {}""".format(hostinfo['ip_str'], hostinfo.get('org', 'n/a'), hostinfo.get('os', 'n/a')))
    print("Country: {}".format(hostinfo['country_name']))
```

```
bash-3.2$ /usr/local/bin/python3 /Users/Yash/.vscode/extensions/ms-python.python-2019.11.50794/pythonFiles/ptvsd_launcher.py --default --client
 --host localhost --port 55972 /Users/Yash/Documents/Code/Google_Code_In_2019/11_ShodanScanner/ShodanScanner.py
________________________________
Enter 1 - To get your IP.
Enter 2 - To scan a specific IP address.
Enter 3 - To Shodan scan using hostname.
Enter 0 - To exit the script.

INPUT: 1
Hostname : [redacted]
your IP address
________________________________
Enter 1 - To get your IP.
Enter 2 - To scan a specific IP address.
Enter 3 - To Shodan scan using hostname.
Enter 0 - To exit the script.

INPUT: 
```

I ran the script in my integrated terminal through VSCode.

Part 2:

Attacked one of the IP addresses of 'hackthissite' and returned information. Using IP address as user input.

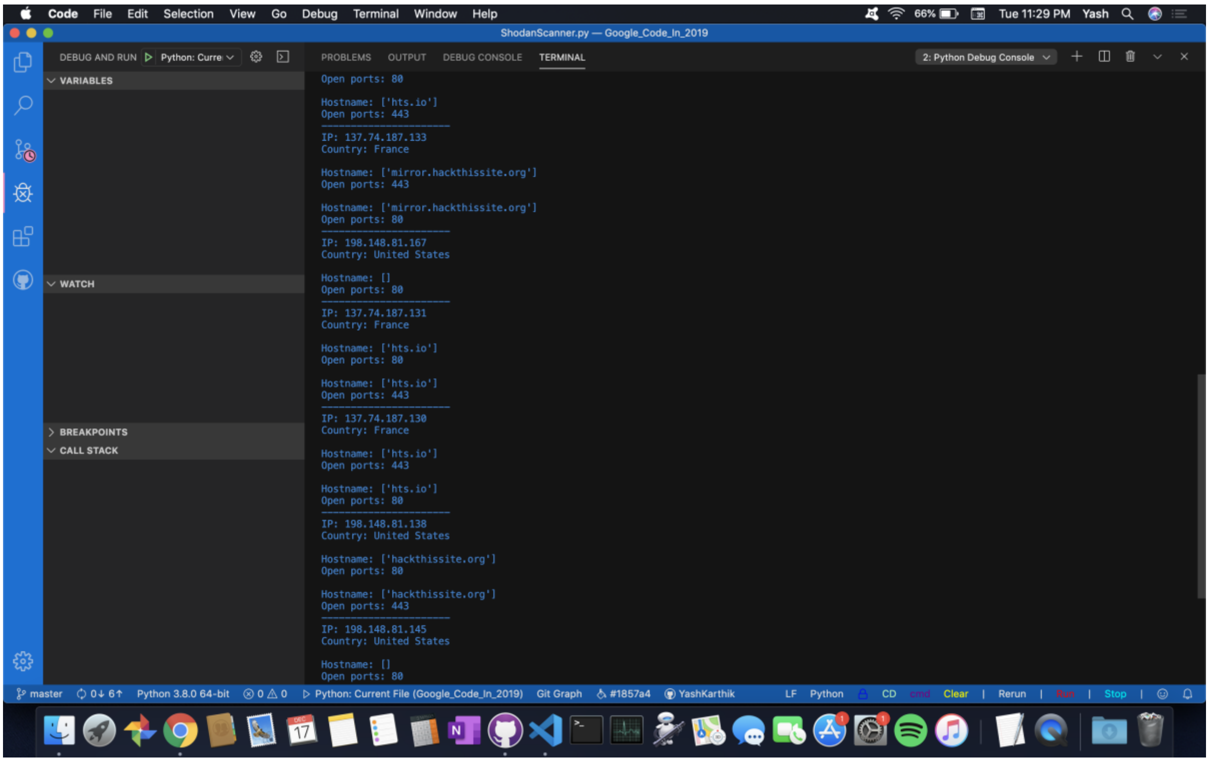


```
INPUT: 2
Enter target's IP address: 137.74.187.153

IP: 137.74.187.153
Organisation: OVH SAS
Operating System: : None
Country: France

Hostname: ['www.irc.hackthissite.org']
Open ports: 80

Hostname: ['www.irc.hackthissite.org']
Open ports: 443
```

Continued running the script through VSCode.

Part 3:

Attacked the site ‘hackthissite’ using hostname as user input.



```
Open ports: 80

Hostname: ['hts.io']
Open ports: 443
------------------------
IP: 137.74.187.133
Country: France

Hostname: ['mirror.hackthissite.org']
Open ports: 443

Hostname: ['mirror.hackthissite.org']
Open ports: 80
------------------------
IP: 198.148.81.167
Country: United States

Hostname: []
Open ports: 80
------------------------
IP: 137.74.187.131
Country: France

Hostname: ['hts.io']
Open ports: 80

Hostname: ['hts.io']
Open ports: 443
------------------------
IP: 137.74.187.130
Country: France

Hostname: ['hts.io']
Open ports: 443

Hostname: ['hts.io']
Open ports: 80
------------------------
IP: 198.148.81.138
Country: United States

Hostname: ['hackthissite.org']
Open ports: 80

Hostname: ['hackthissite.org']
Open ports: 443
------------------------
IP: 198.148.81.145
Country: United States

Hostname: []
Open ports: 80
```

Since I was running the script through VSCode I didn’t use a separate command to perform the attacks.