

## Bake And Make Programming Challenge

Program 2:

**Each time hitting below URL will return a live JSON response of some, write a code to parse the IP field from the JSON output and provide following additional fields and store it in CSV at least for 30 records [You may use for/while loop].**

Primary URL: <https://threatlabip1.forenszy.net/threatinfo.php>

Secondary URL: <https://threatlabip2.forenszy.net/threatinfo.php>

Please make a note here, both the URLs are identical without any change. One can use any one from above for their test.

Country of an IP

ISP of an IP

IP Reputation of an IP [Optional]

Sample Output:

IP, Country, ISP, IP Reputation

1.2.192.199, Thailand, TOT Public Company Limited, Bad

1.2.192.191, Thailand, TOT Public Company Limited, Bad

### Logic :

1. Capture the response of the request
2. Filter out the request (removing \n)
3. Converting the response into json
4. Extracting IP from json
5. Using API of GeoIP extracting details from IP
6. Storing it into csv

### Code:

#Python Code

```
import json
from simple_geoiP import GeoIP
import csv
```

```
for x in range(30):
    URL = "https://threatlabip1.forenszy.net/threatinfo.php"
```

```

response = requests.get('https://threatlabip1.forenszy.net/threatinfo.php')
data = (response.text).replace("\n",",")
data_json = json.loads(data)

ip = data_json['ip']
# API key from "https://ip-geolocation.whoisxmlapi.com/"
geoip = GeoIP("at_yuwKQ8uWtGBfTKthh3tlexWbkUZUk")
data = geoip.lookup(ip)

final_data=data['ip']+','+data['location']['country']+','+data['isp']

print(final_data)

with open('data.csv', 'a', newline="") as file:
    writer = csv.writer(file)
    writer.writerow([data['ip'],data['location']['country'],data['isp']])

print("Done!! Completed")

```

Output:

```

aqua@aqua:~/bake/program2$ python3 challenge2.py
1.1.169.23,TH,TOT Public Company Limited
1.2.198.38,TH,TOT Public Company Limited
1.2.195.76,TH,TOT Public Company Limited
1.0.154.241,TH,TOT Public Company Limited
1.0.190.140,TH,TOT Public Company Limited
1.0.167.114,TH,TOT Public Company Limited
1.0.175.42,TH,TOT Public Company Limited
1.1.240.97,TH,TOT Public Company Limited
1.0.211.250,TH,TOT Public Company Limited
1.0.134.168,TH,TOT Public Company Limited
1.2.199.103,TH,TOT Public Company Limited
1.0.158.148,TH,TOT Public Company Limited
1.0.134.147,TH,TOT Public Company Limited
1.0.134.158,TH,TOT Public Company Limited
1.1.173.85,TH,TOT Public Company Limited
1.2.153.120,TH,TOT Public Company Limited
1.2.147.73,TH,TOT Public Company Limited
1.2.199.61,TH,TOT Public Company Limited
1.2.137.152,TH,TOT Public Company Limited
1.0.162.24,TH,TOT Public Company Limited
1.1.155.7,TH,TOT Public Company Limited
1.0.212.4,TH,TOT Public Company Limited
1.0.208.108,TH,TOT Public Company Limited
1.2.195.146,TH,TOT Public Company Limited
1.2.176.232,TH,TOT Public Company Limited
1.0.150.30,TH,TOT Public Company Limited
1.0.150.110,TH,TOT Public Company Limited
1.0.163.189,TH,TOT Public Company Limited
1.0.210.197,TH,TOT Public Company Limited
1.0.209.152,TH,TOT Public Company Limited
Done!! Completed

```

CSV file:

```
aqua@aqua:~/bake/program2$ cat data.csv
1.1.169.23,TH,TOT Public Company Limited
1.2.198.38,TH,TOT Public Company Limited
1.2.195.76,TH,TOT Public Company Limited
1.0.154.241,TH,TOT Public Company Limited
1.0.190.140,TH,TOT Public Company Limited
1.0.167.114,TH,TOT Public Company Limited
1.0.175.42,TH,TOT Public Company Limited
1.1.240.97,TH,TOT Public Company Limited
1.0.211.250,TH,TOT Public Company Limited
1.0.134.168,TH,TOT Public Company Limited
1.2.199.103,TH,TOT Public Company Limited
1.0.158.148,TH,TOT Public Company Limited
1.0.134.147,TH,TOT Public Company Limited
1.0.134.158,TH,TOT Public Company Limited
1.1.173.85,TH,TOT Public Company Limited
1.2.153.120,TH,TOT Public Company Limited
1.2.147.73,TH,TOT Public Company Limited
1.2.199.61,TH,TOT Public Company Limited
1.2.137.152,TH,TOT Public Company Limited
1.0.162.24,TH,TOT Public Company Limited
1.1.155.7,TH,TOT Public Company Limited
1.0.212.4,TH,TOT Public Company Limited
1.0.208.108,TH,TOT Public Company Limited
1.2.195.146,TH,TOT Public Company Limited
1.2.176.232,TH,TOT Public Company Limited
1.0.150.30,TH,TOT Public Company Limited
1.0.150.110,TH,TOT Public Company Limited
1.0.163.189,TH,TOT Public Company Limited
1.0.210.197,TH,TOT Public Company Limited
1.0.209.152,TH,TOT Public Company Limited
```