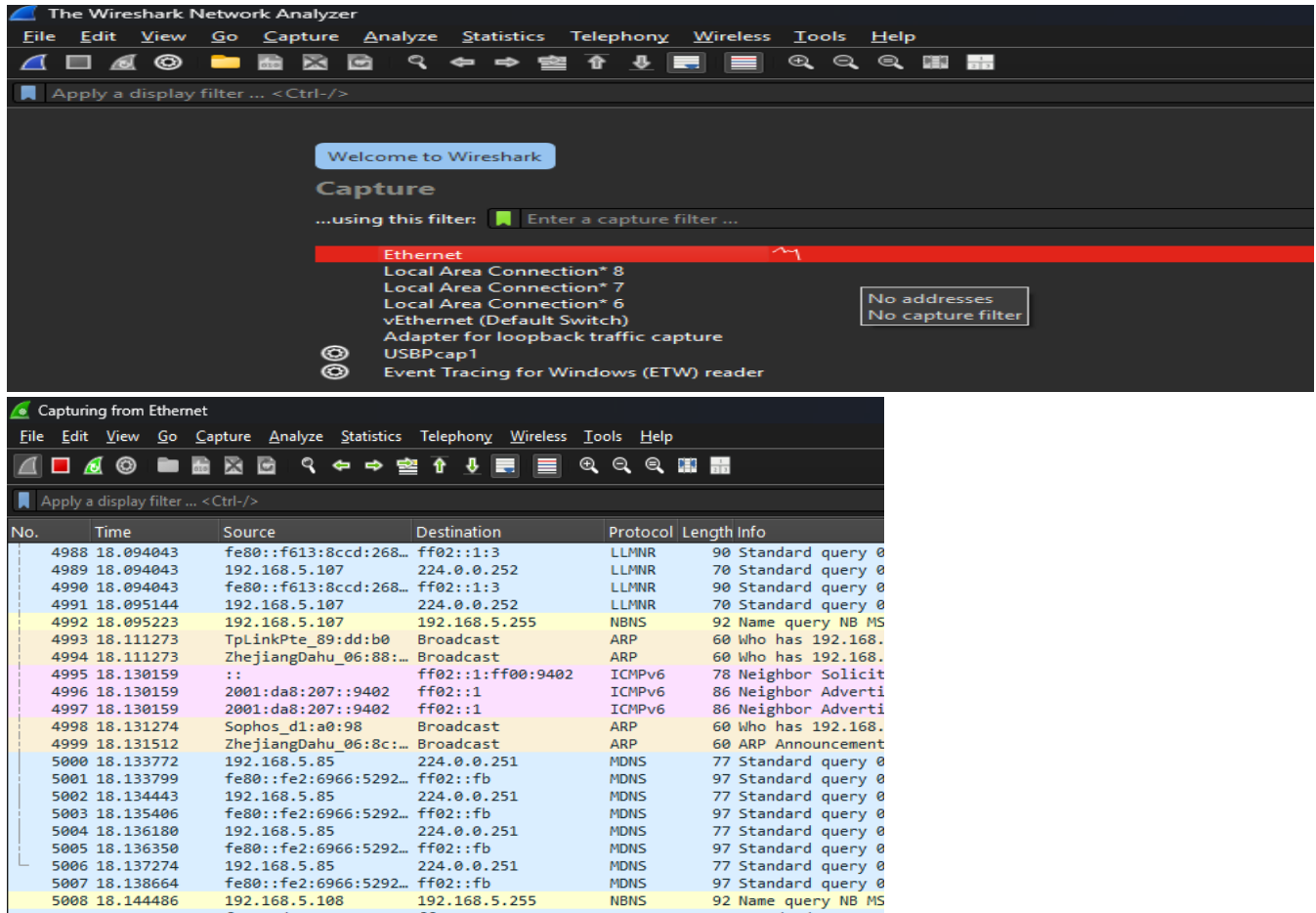


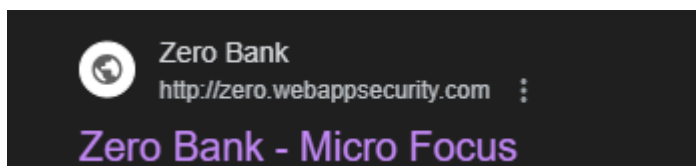
PRACTICAL - 5 (A)

AIM : Use Wireshrap (sniffer)to capture network traffic and analyze

STEP 1: Open Wireshark and click on the Ethernet OR Wifi option then it will open the page .



STEP 2: Go to google and search zerobank and open 1st website i.e [www.zero.webappsecurity.com](http://zero.webappsecurity.com) copy that website



STEP 3 : Open cmd and paste www.zero.webappsecurity.com this link then we get the link ip address copy that

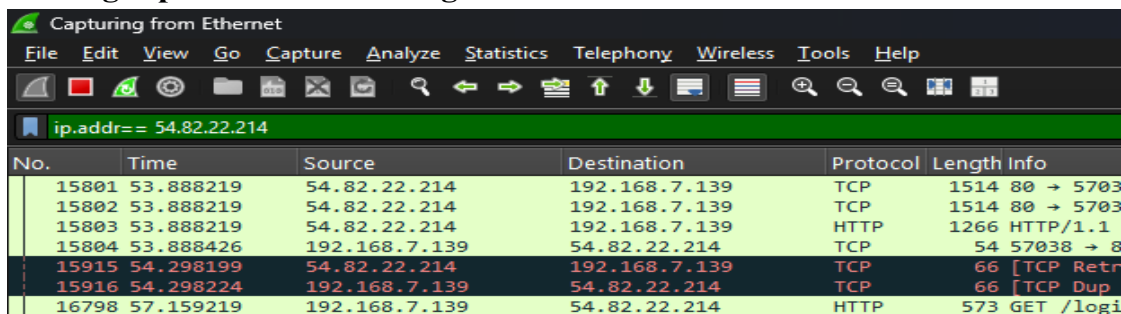
```
Command Prompt

Microsoft Windows [Version 10.0.26100.7462]
(c) Microsoft Corporation. All rights reserved.

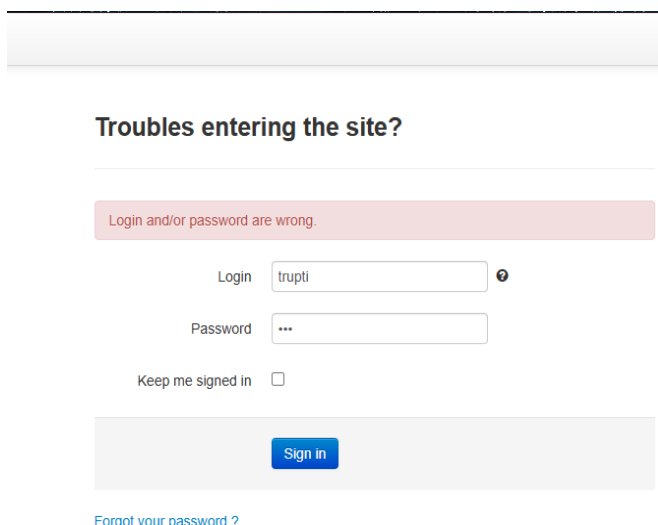
C:\Users\student>nslookup zero.webappsecurity.com
Server:      mumapps1.primenet.in
Address:     203.115.112.85

Non-authoritative answer:
Name:        zero.webappsecurity.com
Address:     54.82.22.214
```

STEP 4 : Then open wireshark and top type ip.addr==54.82.22.214 that is the ip address and then open zero bank website login with id and password it will show that login/password are wrong but it will fetch the credentials.



No.	Time	Source	Destination	Protocol	Length	Info
15801	53.888219	54.82.22.214	192.168.7.139	TCP	1514	80 → 5703
15802	53.888219	54.82.22.214	192.168.7.139	TCP	1514	80 → 5703
15803	53.888219	54.82.22.214	192.168.7.139	HTTP	1266	HTTP/1.1
15804	53.888426	192.168.7.139	54.82.22.214	TCP	54	57038 → 8
15915	54.298199	54.82.22.214	192.168.7.139	TCP	66	[TCP Retr
15916	54.298224	192.168.7.139	54.82.22.214	TCP	66	[TCP Dup
16798	57.159219	192.168.7.139	54.82.22.214	HTTP	573	GET /logi



Troubles entering the site?

Login and/or password are wrong.

Login

Password

Keep me signed in ☐

[Sign in](#)

[Forgot your password ?](#)

STEP 5 : Go on wireshark and at top search http and in that you will see the POST link i.e 818 POST /signin.html/1/1 (application...) then click on that website and close it

No.	Time	Source	Destination	Protocol	Length
15563	53.276264	192.168.7.139	54.82.22.214	HTTP	555
15803	53.888219	54.82.22.214	192.168.7.139	HTTP	1266
16798	57.159219	192.168.7.139	54.82.22.214	HTTP	573
16896	57.368272	54.82.22.214	192.168.7.139	HTTP	477
18402	62.569435	192.168.7.139	54.82.22.214	HTTP	818
18454	62.773120	54.82.22.214	192.168.7.139	HTTP	413
18455	62.774907	192.168.7.139	54.82.22.214	HTTP	626
18539	62.983343	54.82.22.214	192.168.7.139	HTTP	613
38384	129.230540	192.168.0.154	192.168.0.6	HTTP	714
71608	245.749141	192.168.7.139	54.82.22.214	HTTP	871
71691	246.146882	54.82.22.214	192.168.7.139	HTTP	414
71697	246.152817	192.168.7.139	54.82.22.214	HTTP	626
71815	246.555824	54.82.22.214	192.168.7.139	HTTP	613

STEP 6 : Then at bottom we will see HTMLform url Encoded.... Then click on it and we can see the credentials

```

2208... 727.799099 192.168.7.139 54.82.22.214 HTTP 835 POST /signin.html HTTP/1.1 (application/x-www-form-urlencoded)
2209... 728.213878 54.82.22.214 192.168.7.139 HTTP 414 HTTP/1.1 302 Found
2209... 728.215815 192.168.7.139 54.82.22.214 HTTP 643 GET /login.html?login_error=true HTTP/1.1
2210... 728.635059 54.82.22.214 192.168.7.139 HTTP 613 HTTP/1.1 200 OK (text/html)
2234... 737.133063 192.168.7.139 54.82.22.214 HTTP 835 POST /signin.html HTTP/1.1 (application/x-www-form-urlencoded)
2235... 737.545814 54.82.22.214 192.168.7.139 HTTP 414 HTTP/1.1 302 Found
2235... 737.551642 192.168.7.139 54.82.22.214 HTTP 643 GET /login.html?login_error=true HTTP/1.1
2237... 737.969695 54.82.22.214 192.168.7.139 HTTP 613 HTTP/1.1 200 OK (text/html)

> Frame 223480: 835 bytes on wire (6680 bits), 835 bytes captured (6680 bits) on interface \Device\NPF...
> Ethernet II, Src: GigaByteTech_a0:13:d4 (d8:5e:d3:a0:13:d4), Dst: Sophos_d1:a0:98 (7c:5a:1c:d1:a0:98)
> Internet Protocol Version 4, Src: 192.168.7.139, Dst: 54.82.22.214
> Transmission Control Protocol, Src Port: 53525, Dst Port: 80, Seq: 1, Ack: 1, Len: 781
> Hypertext Transfer Protocol
  > HTML Form URL Encoded: application/x-www-form-urlencoded
    > Form item: "user_login" = "trupti"
    > Form item: "user_password" = "123"
    > Form item: "submit" = "Sign in"
    > Form item: "user_token" = "4847726e-8403-4156-b012-7c916484bbe1"

0030 00 ff 18 83 00 00 50 4f 53 54 20 2f
0040 69 6e 2e 68 74 6d 6c 20 48 54 54 50
0050 0d 0a 48 6f 73 74 3a 20 7a 65 72 6f
0060 61 70 70 73 65 63 75 72 69 74 79 2e
0070 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a
0080 70 2d 61 6c 69 76 65 0d 0a 43 6f 6e
0090 2d 4c 65 6e 67 74 68 3a 20 39 38 0d
00a0 68 65 2d 43 6f 6e 74 72 6f 6c 3a 20
00b0 61 67 65 3d 30 0d 0a 4f 72 69 67 69
00c0 74 74 70 3a 2f 2f 7a 65 72 6f 2e 77
00d0 70 73 65 63 75 72 69 74 79 2e 63 6f
00e0 6f 6e 74 65 6e 74 2d 54 79 70 65 3a
00f0 6c 69 63 61 74 69 6f 6e 2f 78 2d 77
0100 6f 72 6d 2d 75 72 6c 65 6e 63 6f 64
0110 55 70 67 72 61 64 65 2d 49 6e 73 65

> Frame 164449: 790 bytes on wire (6320 bits), 790 bytes captured (6320 bits) on interface \Device\NPF...
> Ethernet II, Src: GigaByteTech_a0:13:d4 (d8:5e:d3:a0:13:d4), Dst: Sophos_d1:a0:98 (7c:5a:1c:d1:a0:98)
> Internet Protocol Version 4, Src: 192.168.7.139, Dst: 54.82.22.214
> Transmission Control Protocol, Src Port: 50274, Dst Port: 80, Seq: 1, Ack: 1, Len: 736
> Hypertext Transfer Protocol
  > HTML Form URL Encoded: application/x-www-form-urlencoded
    > Form item: "user_login" = "trupti"
    > Form item: "user_password" = "1234"
    > Form item: "submit" = "Sign in"
    > Form item: "user_token" = "6101b181-a26d-4bc6-89cc-7dea4d97bc3a"

```