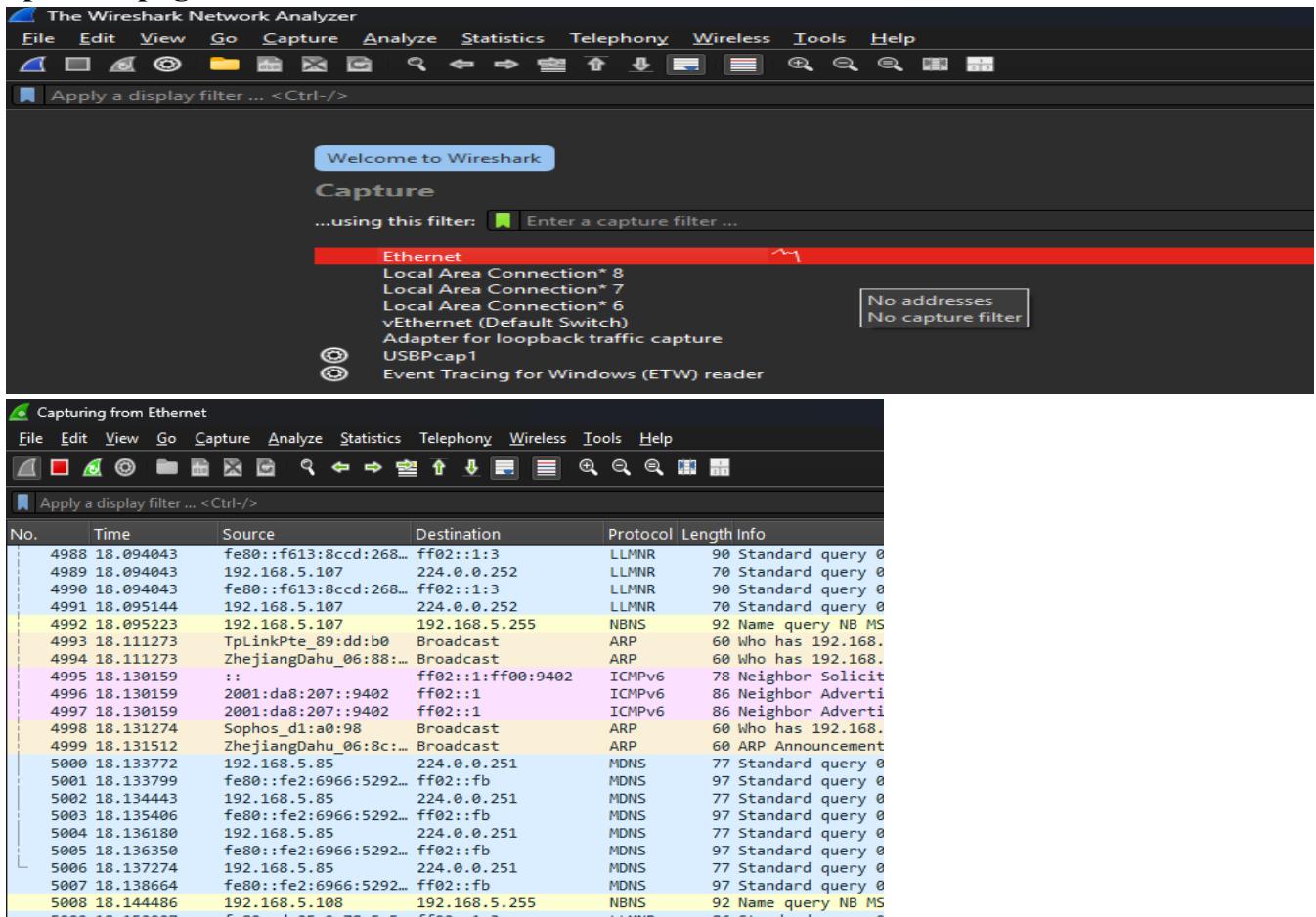


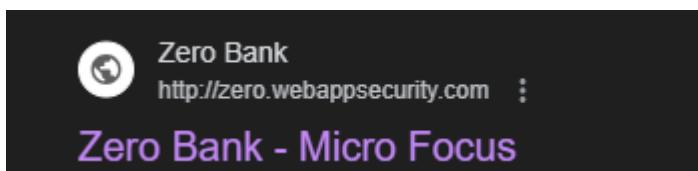
## PRACTICAL - 5 (A)

**AIM : Use Wireshark (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://www.zero.webappsecurity.com) copy that website**



**STEP 3 : Open cmd and paste [www.zero.webappsecurity.com](http://www.zero.webappsecurity.com) this link then we get the link ip address copy that**

```
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 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... /27./99099 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\NP
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"

Frame 1644449: 790 bytes on wire (6320 bits), 790 bytes captured (6320 bits) on interface \Device\NP
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"

```