



VIT[®]

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

**School of Computer Science and Engineering
(SCOPE)**

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Subject : Information Security Management

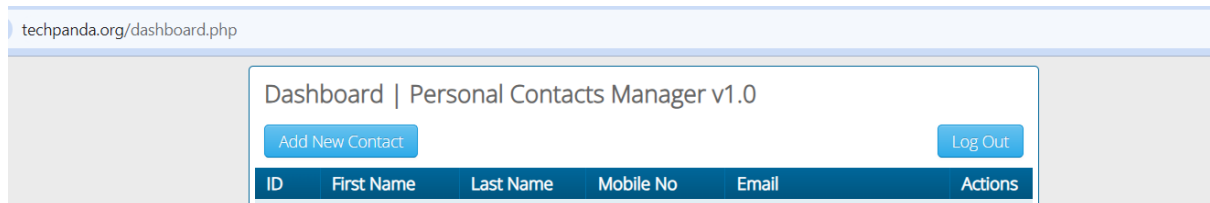
LAB Digital ASSESSMENT 1

Winter Semester 2023-24

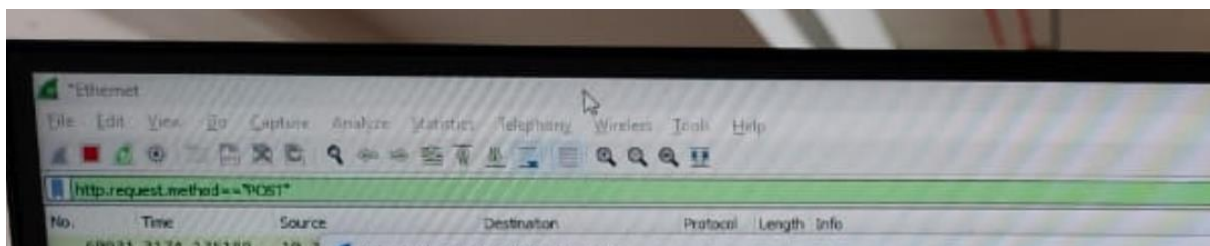
BCSE354E - Information Security Management Lab

Q1. Retrieve the Login ID and Password of a Website using WireShark.

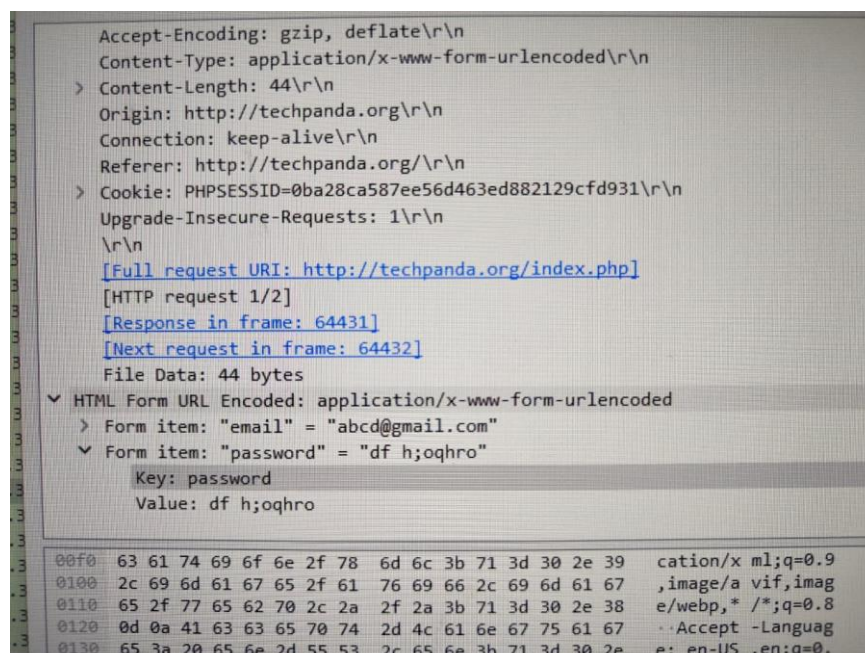
1. Logging into the <http://www.techpanda.org/> using a given username.



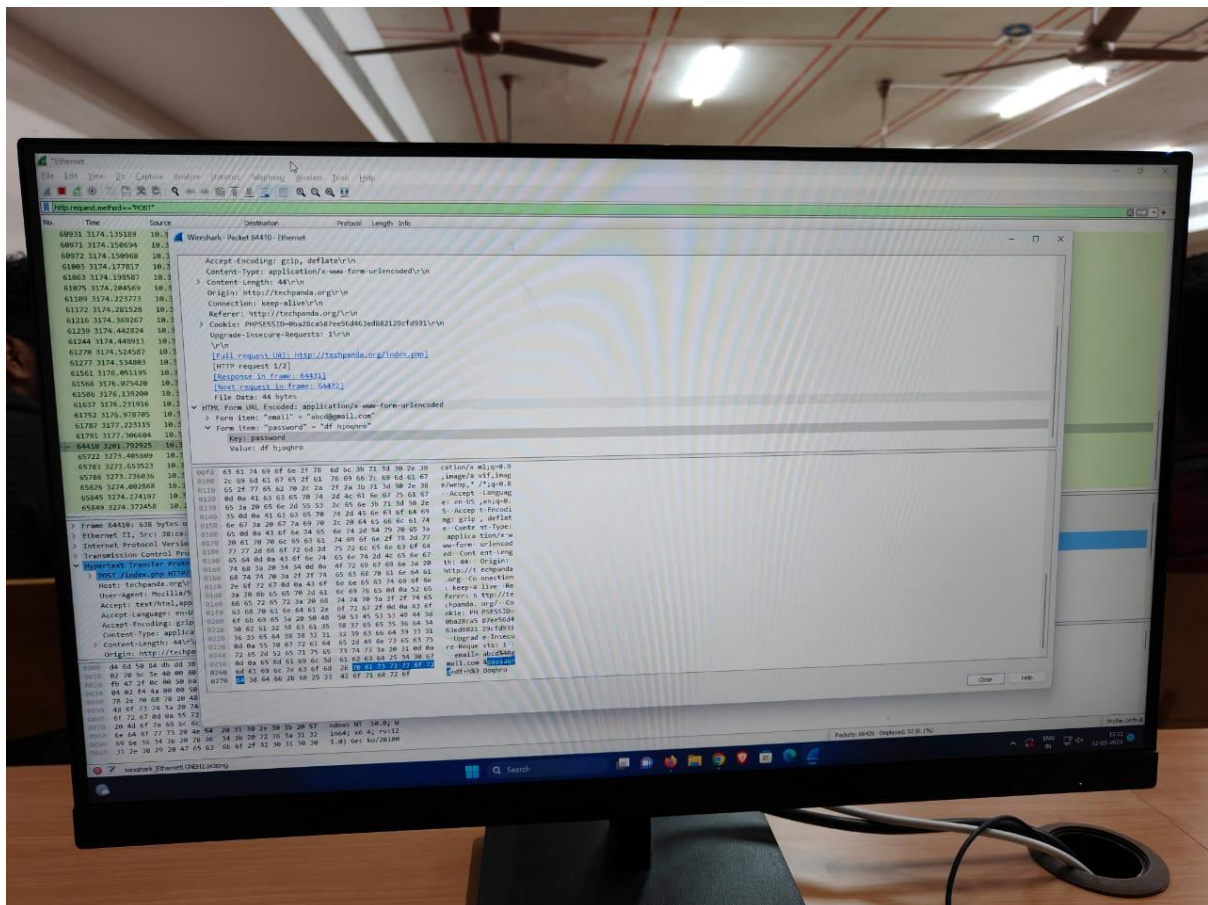
2. Tracking the username and password using Wireshark using Filter.



3. Screenshots of the Output File.



Final Output :



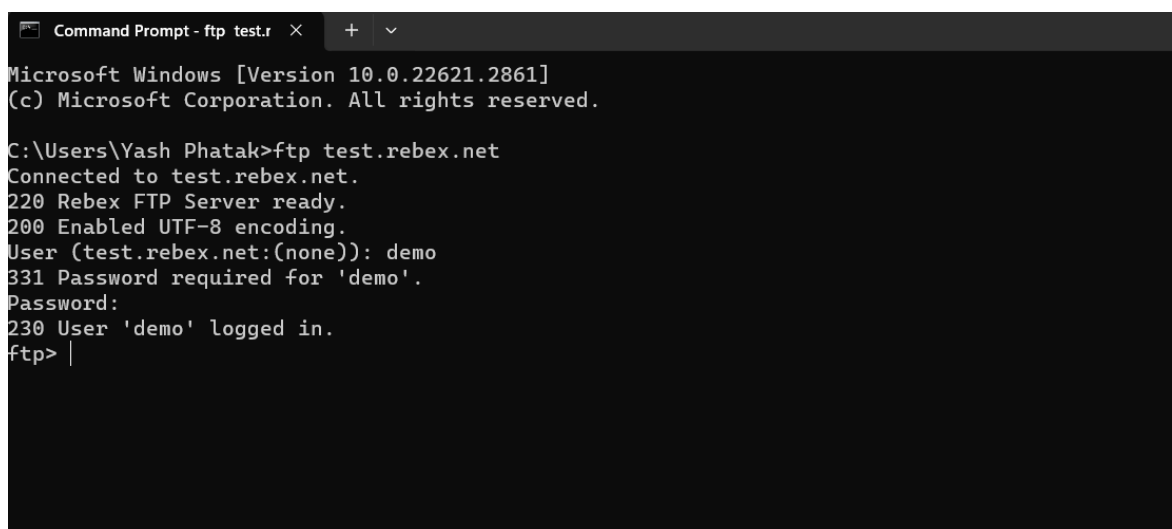
4. a. Name of the Filter : `http.request.method == "POST"`

The request method accesses a property of the request object, which holds information about the current HTTP request from the user's browser.

b. IP Address is 72.52.251.71

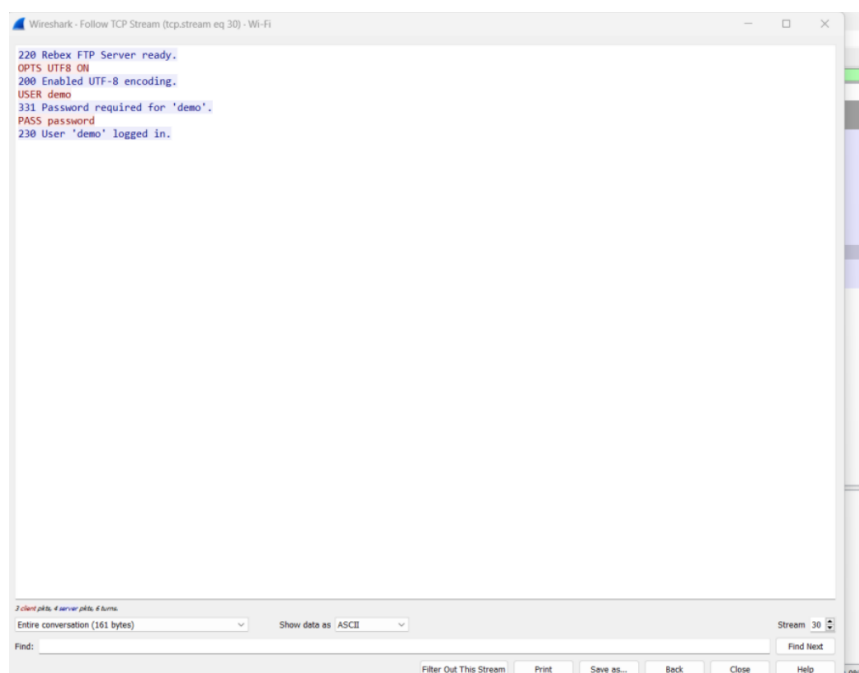
Q2. Crack the FTP user_ID and Password using WireShark.

1. Login to Host FTP using Command Prompt



```
Command Prompt - ftp test.r  X + v
Microsoft Windows [Version 10.0.22621.2861]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Yash Phatak>ftp test.rebex.net
Connected to test.rebex.net.
220 Rebex FTP Server ready.
200 Enabled UTF-8 encoding.
User (test.rebex.net:(none)): demo
331 Password required for 'demo'.
Password:
230 User 'demo' logged in.
ftp> |
```



No.	Time	Source	Destination	Protocol	Length	Info
6378	53.176775	172.16.147.184	20.119.174.243	TCP	66	53539 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
6405	53.413942	20.119.174.243	172.16.147.184	TCP	66	443 → 53539 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1460 SACK_PERM WS=128
6406	53.414072	172.16.147.184	20.119.174.243	TCP	54	53539 → 443 [ACK] Seq=1 Ack=1 Win=66048 Len=0
6407	53.414601	172.16.147.184	20.119.174.243	TLSv1.2	826	Client Hello
6454	53.645605	20.119.174.243	172.16.147.184	TCP	60	443 → 53539 [ACK] Seq=1 Ack=773 Win=64128 Len=0
6455	53.646404	20.119.174.243	172.16.147.184	TLSv1.2	1514	Server Hello
6456	53.646404	20.119.174.243	172.16.147.184	TCP	1514	443 → 53539 [PSH, ACK] Seq=1461 Ack=773 Win=64128 Len=1460 [TCP segment of a reassembled PDU]
6458	53.646534	172.16.147.184	20.119.174.243	TCP	54	53539 → 443 [ACK] Seq=773 Ack=2921 Win=66048 Len=0
6459	53.648173	20.119.174.243	172.16.147.184	TCP	1230	443 → 53539 [PSH, ACK] Seq=2921 Ack=773 Win=64128 Len=1176 [TCP segment of a reassembled PDU]
6460	53.650228	20.119.174.243	172.16.147.184	TLSv1.2	1173	Certificate, Server Key Exchange, Server Hello Done
6461	53.650304	172.16.147.184	20.119.174.243	TCP	54	53539 → 443 [ACK] Seq=773 Ack=5216 Win=66048 Len=0
6462	53.650592	172.16.147.184	20.119.174.243	TLSv1.2	147	Client Key Exchange, Change Cipher Spec, Encrypted Handshake Message
6482	53.877057	20.119.174.243	172.16.147.184	TLSv1.2	328	New Session Ticket, Change Cipher Spec, Encrypted Handshake Message
6486	53.921925	172.16.147.184	20.119.174.243	TCP	54	53539 → 443 [ACK] Seq=866 Ack=5490 Win=65792 Len=0
9630	72.880931	20.119.174.243	172.16.147.184	TLSv1.2	85	Encrypted Alert
9631	72.880931	20.119.174.243	172.16.147.184	TCP	60	443 → 53539 [FIN, ACK] Seq=5521 Ack=866 Win=64128 Len=0
9632	72.881030	172.16.147.184	20.119.174.243	TCP	54	53539 → 443 [ACK] Seq=866 Ack=5522 Win=65792 Len=0
11135	83.919382	172.16.147.184	20.119.174.243	TCP	54	53539 → 443 [FIN, ACK] Seq=866 Ack=5522 Win=65792 Len=0
11182	83.148238	20.119.174.243	172.16.147.184	TCP	60	443 → 53539 [ACK] Seq=5522 Ack=867 Win=64128 Len=0

> Frame 6405: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{A14AE577-70FD-48BA-8...}	0000	2c 6d c1 da 05 02 68 b5 99 ce 15 56 08 00 45 00h.....V.E.
> Ethernet II, Src: HewlettP...:15:56 (68:15:59:ce:15:56), Dst: IntelCor_da:05:02 (2c:6d:c1:da:05:02)	0010	00 34 00 00 40 00 21 86 56 91 14 77 ae f3 ac 10I.V.w....
> Internet Protocol Version 4, Src: 20.119.174.243, Dst: 172.16.147.184	0020	93 b8 01 bd d1 23 e2 97 93 54 32 1c 26 22 80 12T2&....
> Transmission Control Protocol, Src Port: 443, Dst Port: 53539, Seq: 0, Ack: 1, Len: 0	0030	fa f0 cf e7 00 00 02 04 05 a0 01 01 04 02 01 03

Q. 1 -> Source IP is User and Destination is the FTP Server

Q.2 -> Source Port : 52508

Destination Port : 21