Networks Laboratory - Assignment 2

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End of transfer of packets

- Initially, in frames 1 and 2, we are doing a DNS lookup of minerva.nitc.ac.in to find its IP address.
- IP address of minerva.nitc.ac.in is 103.160.223.7 and the port used is 443
- IP address of the laptop is 192.168.1.57 and the port used is 37708
- Most of the frames are using TCP protocol which indicates that the data is transmitted using TCP protocol.
- Transport Layer Security (TLSv1.2) protocol is used to encrypt data sent through the internet.
- Then in frames 3 and 4, the SYN flag is set which synchronises the sequence numbers and indicates that the connection is initiated.
- In frame 6 we see the client sending hello and in frame 8, we can see the server sending hello. This is known as TLS handshake and is what starts a communication session between the client and the server.
- In frames 219 and 221, the FIN flag is set which indicates that the connection is being terminated.
- 2. a. Source: 192.168.44.53 Destination: 192.168.44.1
 - b. HTTP
 - c. Username: vasudevanar

Password: vasu

3. Packet Number: 27

Source Port: 443

Data Offset: 20

Destination Port: 59138

Sequence Number: 3056868986

Acknowledgement Number: 1084580465

Reserved: 0 URG: 0 ACK: 1 PSH: 0 RST: 0 SYN: 0 FIN: 1

Window Size: 60 Checksum: 0x5442 Urgent Pointer: 0

Packet Number: 32

Source Port: 59139 Destination Port: 443

Sequence Number: 1660956066

Acknowledgement Number: 3861199010

Data Offset: 20 Reserved: 000

URG: 0 ACK: 1 PSH: 0 RST: 1 SYN: 0 FIN: 0

Window Size: 0 Checksum: 0xfaec Urgent Pointer: 0