Ahsanullah University of Science & Technology



Department of Computer Science & Engineering

Program: Bachelor of Science in Computer Science and Engineering

Assignment on Wireshark

Course No : CSE 4102

Course Title : Computer Networks Lab

Topic Name : Wireshark **Date of Submission** : 04.09.2022

Submitted to:

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Submitted by:

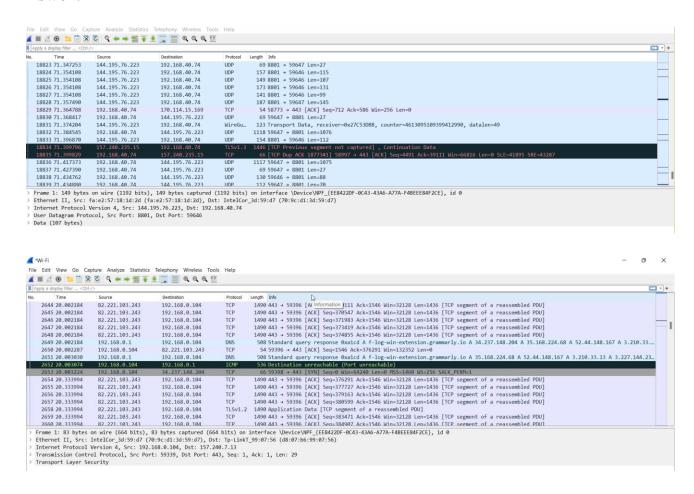
Name: S. M. Tasnimul Hasan

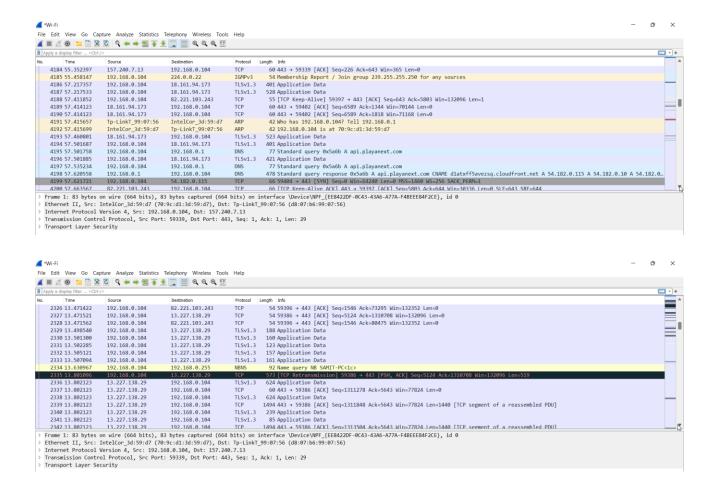
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Question:a

Start your web browser and start Wireshark and capture packets. Browse some websites and list 10 different protocols that appear in the protocol column in the unfiltered packet-listing window.

Answer:





List of 10 different protocols:

- 1. TCP
- 2. ICMP
- 3. TLSv1.2
- 4. UDP
- 5. ARP
- 6. Wire Ground
- 7. DNS
- 8. TLSv1.3
- 9. IGMPv3
- 10. NBNS

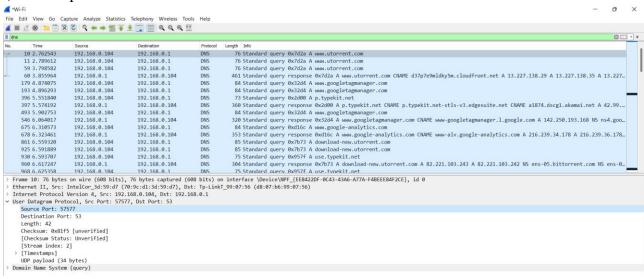
Question:b

Filter the packets having DNS in protocol field, select a row and answer the following questions.

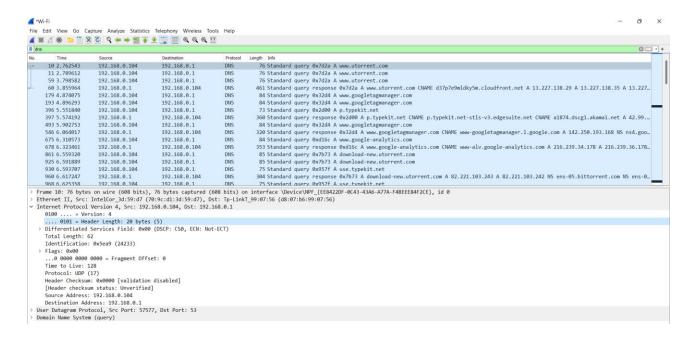
- i. Which port is used as source port?
 - ii. What is the size of IPv4 header length?

Answer:

i) Source port: 57577



ii) IPv4 Header Length: 20 bytes



Question: c

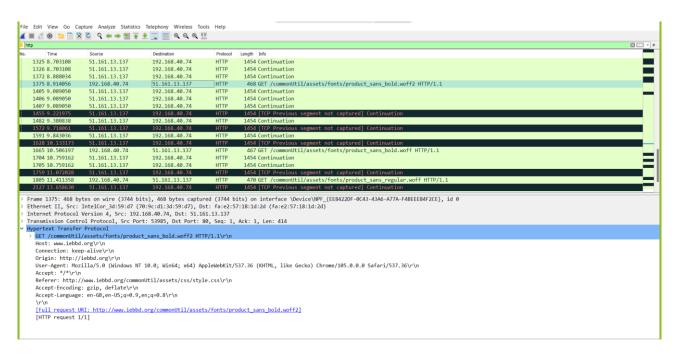
Browse iebbd.org and answer the following questions.

- i. What is the IP address of iebbd.org.
- ii. How long did it take from when the first HTTP GET message was sent until the HTTP OK

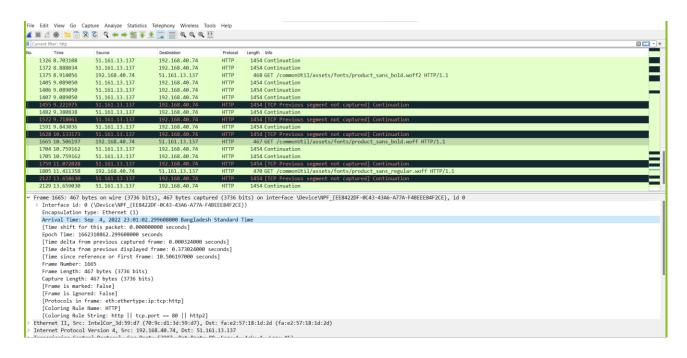
reply was received? In case, HTTP OK is not received then check for last HTTP Continuation. iii. What is the frame length of first HTTP GET message. iv. Now, visit the login page and enter your ID in the Member ID field and your name in password field. Then hit the "login" button. Find out the data that was entered in the using Wireshark. (include snapshot of the login form with data filled in) v. Find out the port number on which the HTTP requests are made.

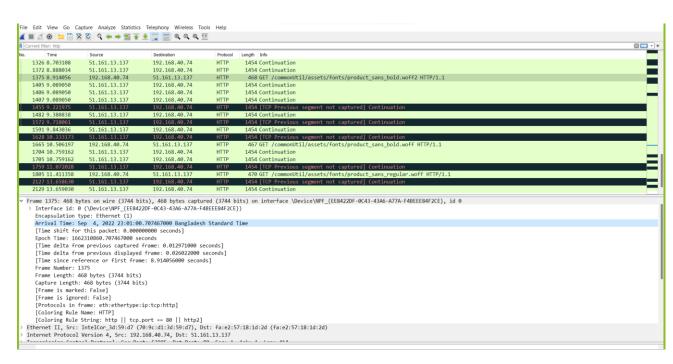
Answer:

i)IP address of iebdd.org is: 51.161.13.137

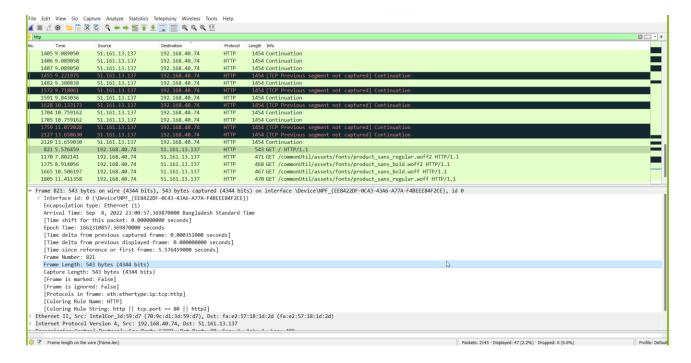


ii) It takes 2.2996s-0.7074s=1.5922s

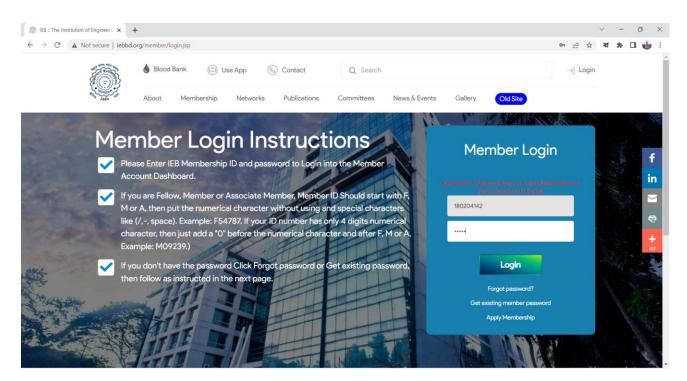




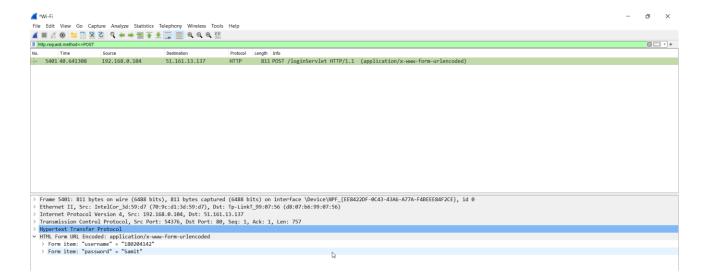
iii)Frame length of the first HTTP GET message: 543 bytes



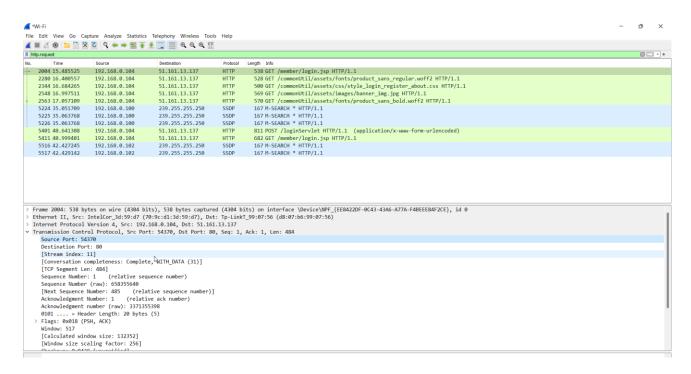
iv) Login form



Username: 180204142 Password: Samit



v) Port number on which the HTTP requests are made: 54370



Question:d

Start your torrent client application (qBitorrent, utorrent, etc.). Set incoming port address to last five digits of your student ID from the preference/option. Download any content from any torrent site if you just installed the torrent client. Now filter the packets transmitted using the torrent client.

Answer:

