



Computer Networks

Homework 1

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1. finish the experiment of HTTP packets capturing via wireshark (see pages: 30-36)

Solution:

Step1

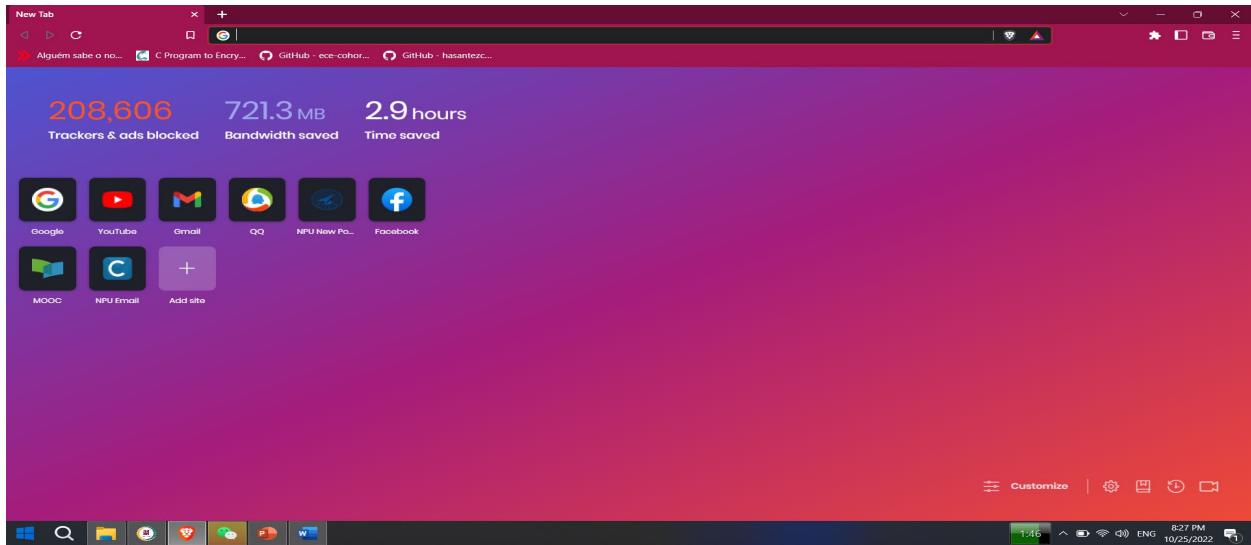


Fig: Opening The Browser

Step2

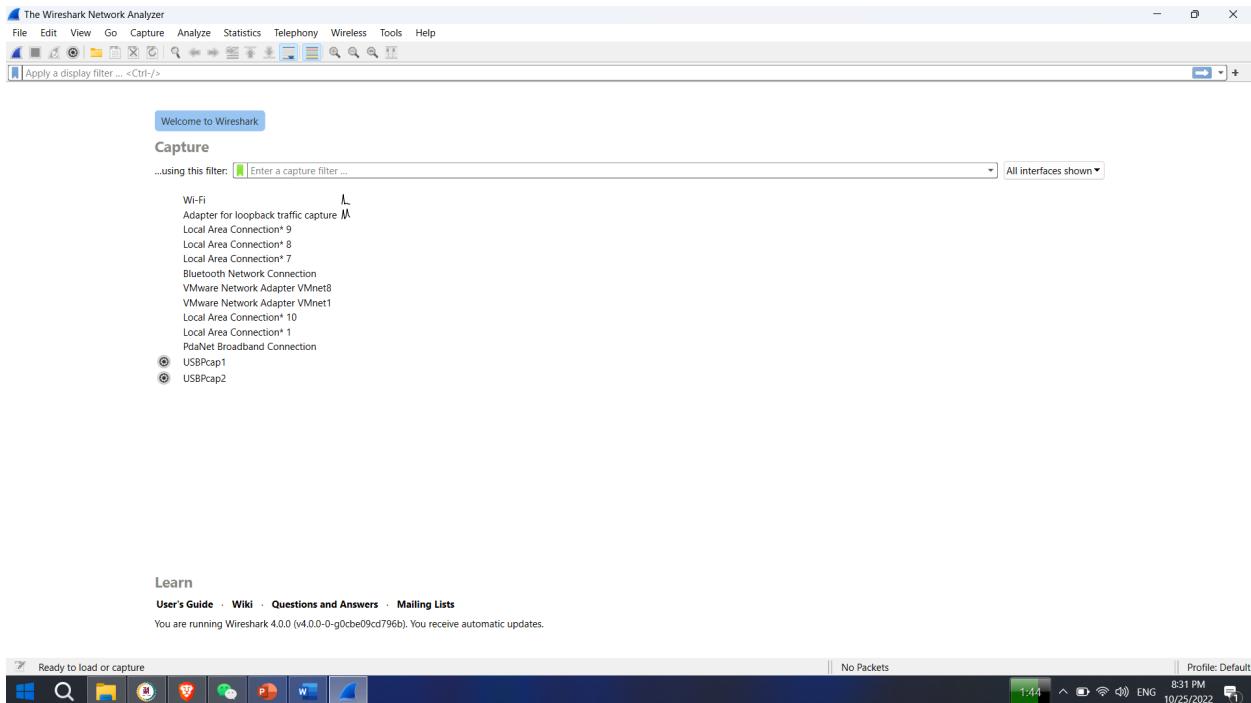


Fig: Open Wireshark Application

Step3

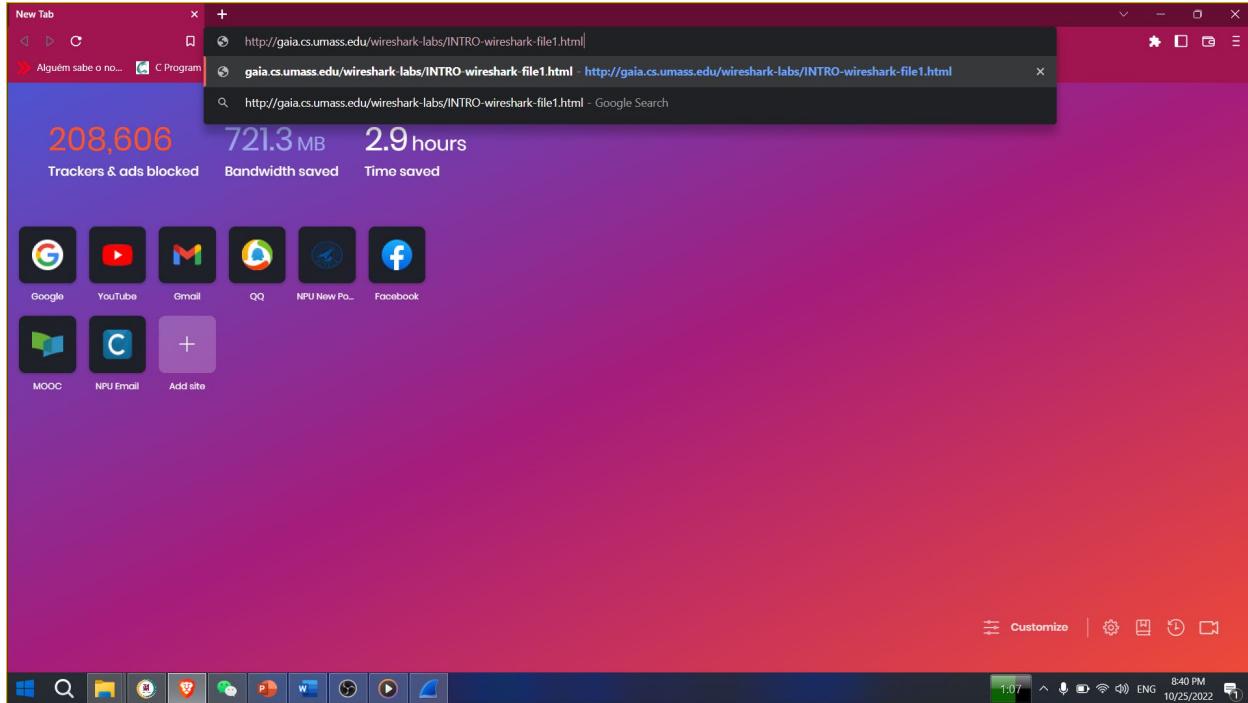


Fig: Pasting the link

Step4

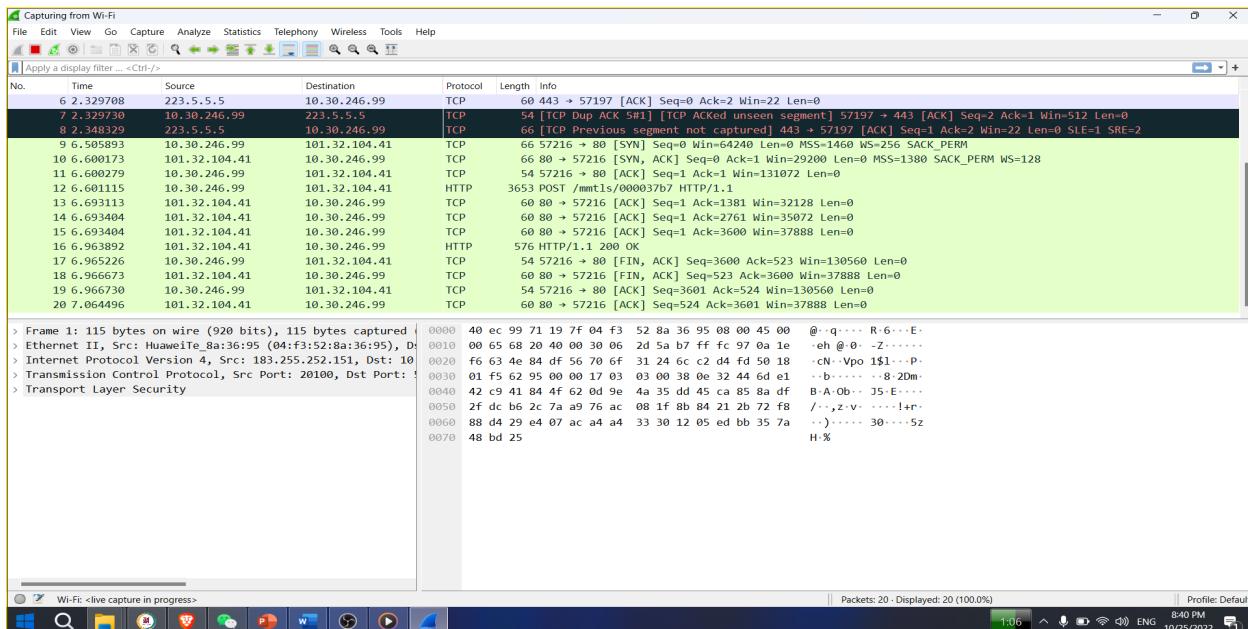


Fig: Started Wireshark

Step5

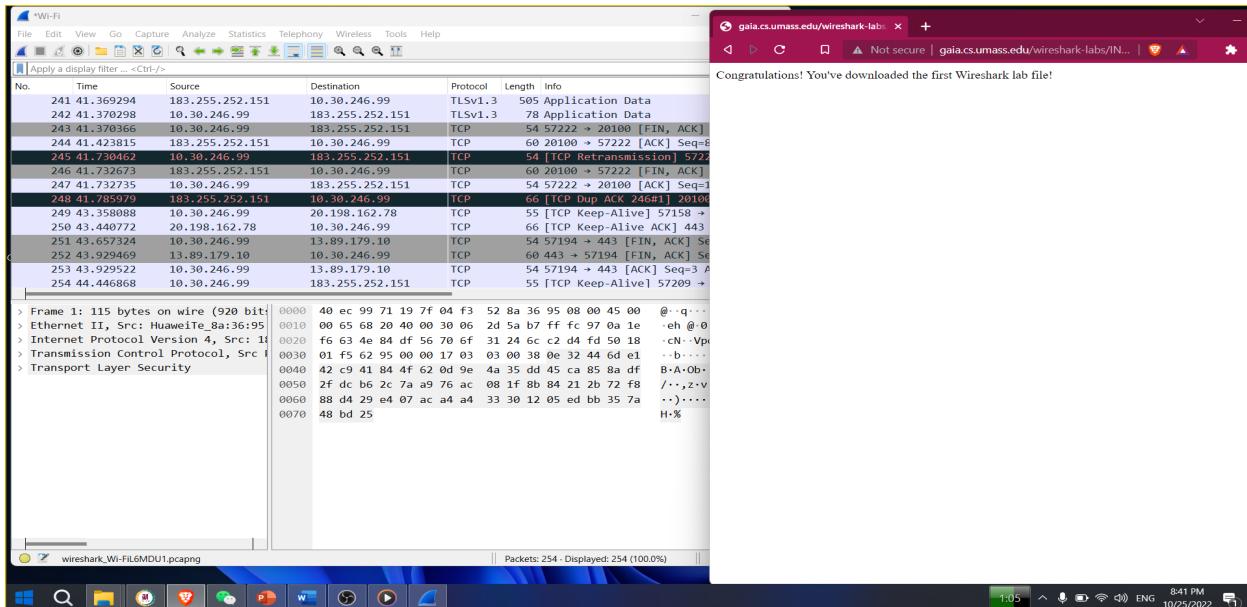


Fig: Congratulations Message Got

Step6

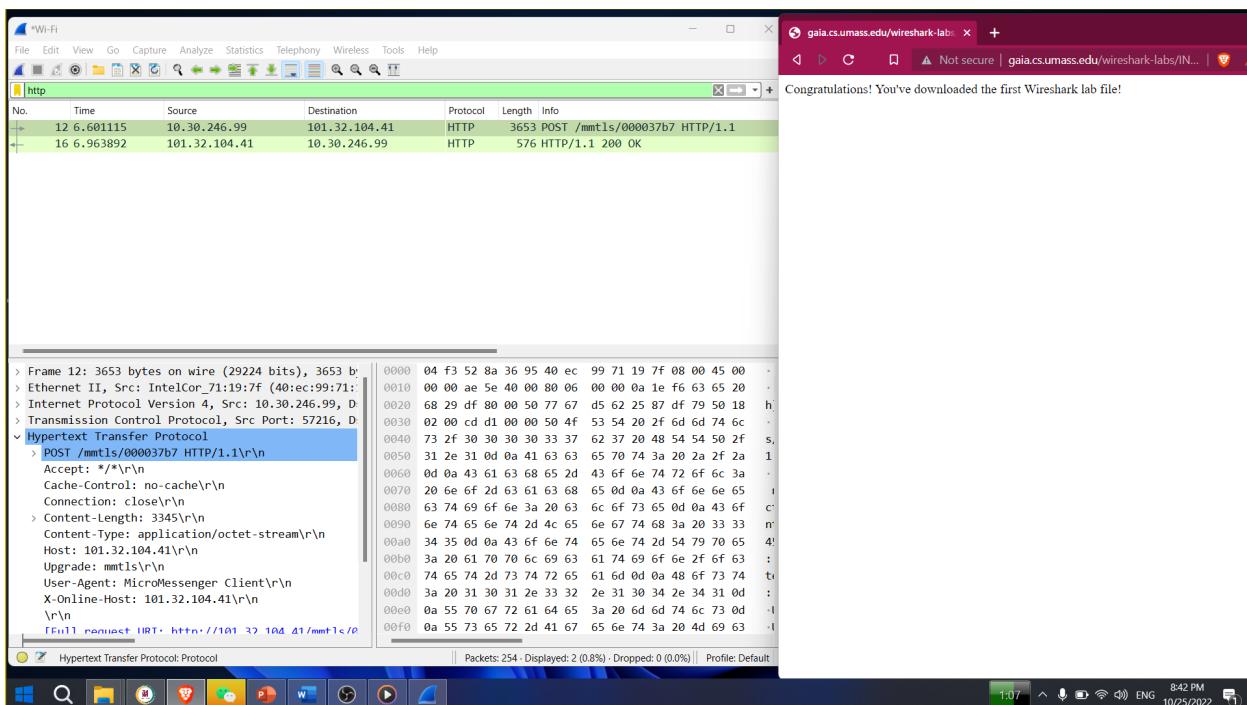


Fig : Got the HTTP/1.1 200 OK

According to teacher's instruction got that message. It means I am in the right direction.

Step7

```

✓ Hypertext Transfer Protocol
  > POST /mmtls/000037b7 HTTP/1.1\r\n
    Accept: */*\r\n
    Cache-Control: no-cache\r\n
    Connection: close\r\n
  > Content-Length: 3345\r\n
    Content-Type: application/octet-stream\r\n
    Host: 101.32.104.41\r\n
    Upgrade: mmtls\r\n
    User-Agent: MicroMessenger Client\r\n
    X-Online-Host: 101.32.104.41\r\n
    \r\n
    [Full request URI: http://101.32.104.41/mmtls/000037b7]
    [HTTP request 1/1]
    [Response in frame: 16]
    File Data: 3345 bytes
  > Data (3345 bytes)

```

Fig: HTTP Message

Step8

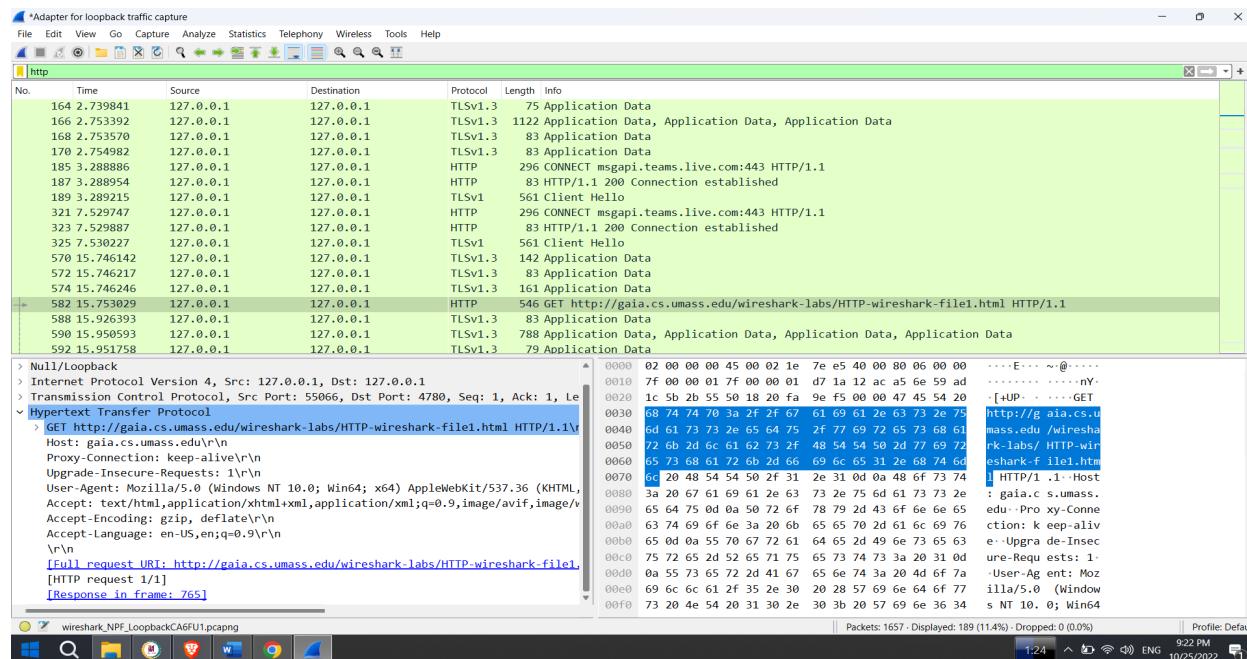


Fig: Successfully got the GET message with the URL

2. finish the experiment of TCP packets capturing via wireshark (see pages: 56-57)

Step1

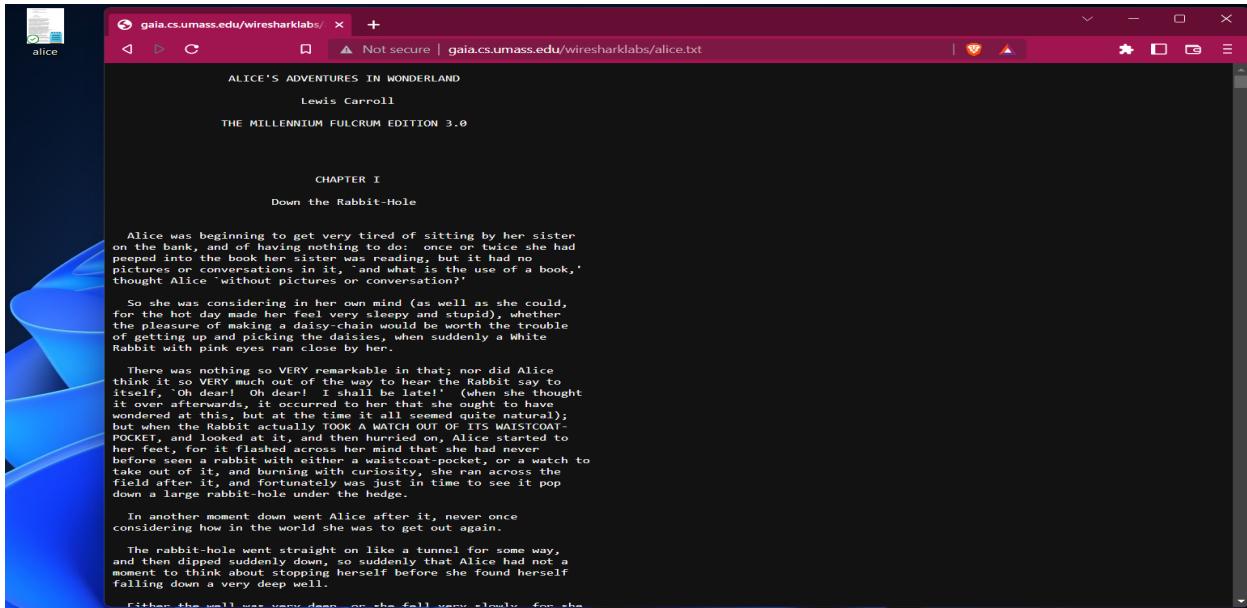


Fig : Searched the link and downloaded the Alice.txt file

Step2

<http://gaia.cs.umass.edu/wiresharklabs/alice.txt>

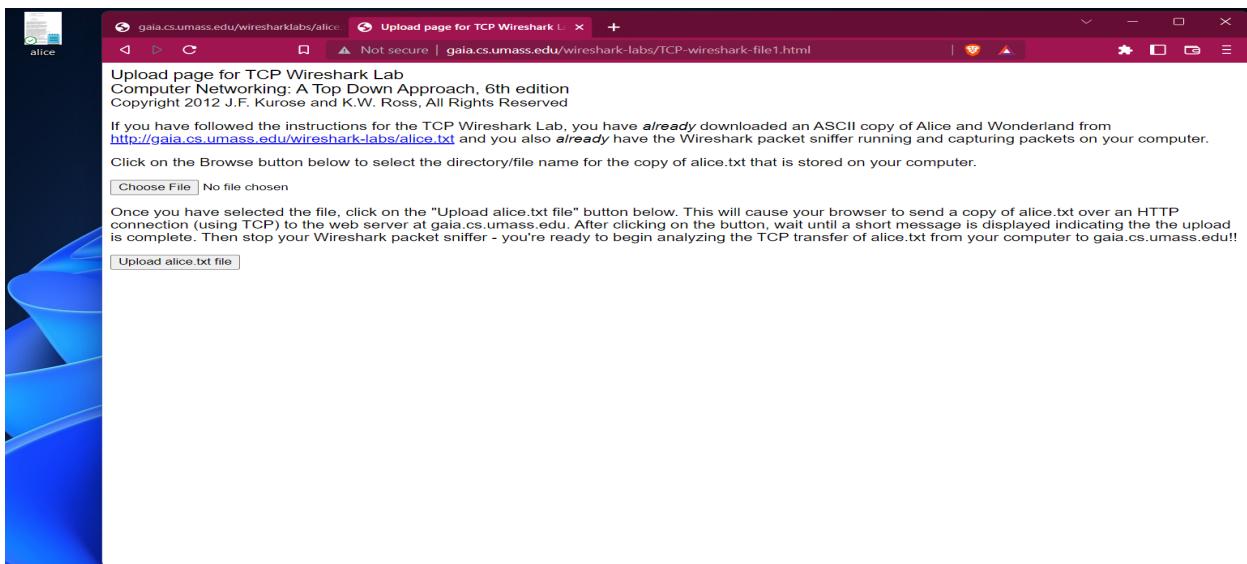


Fig: Type the link <http://gaia.cs.umass.edu/wireshark-labs/TCP-wireshark-file1.html>

Step3

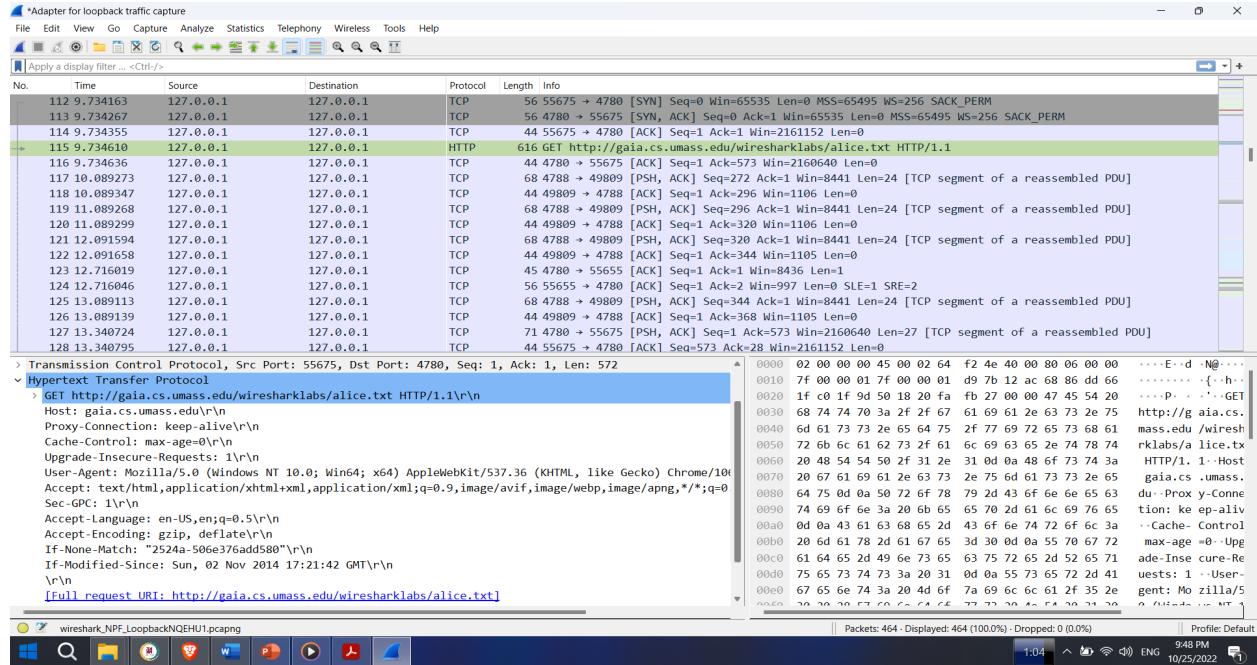


Fig: Alice file opened in browser then downloaded

Step4

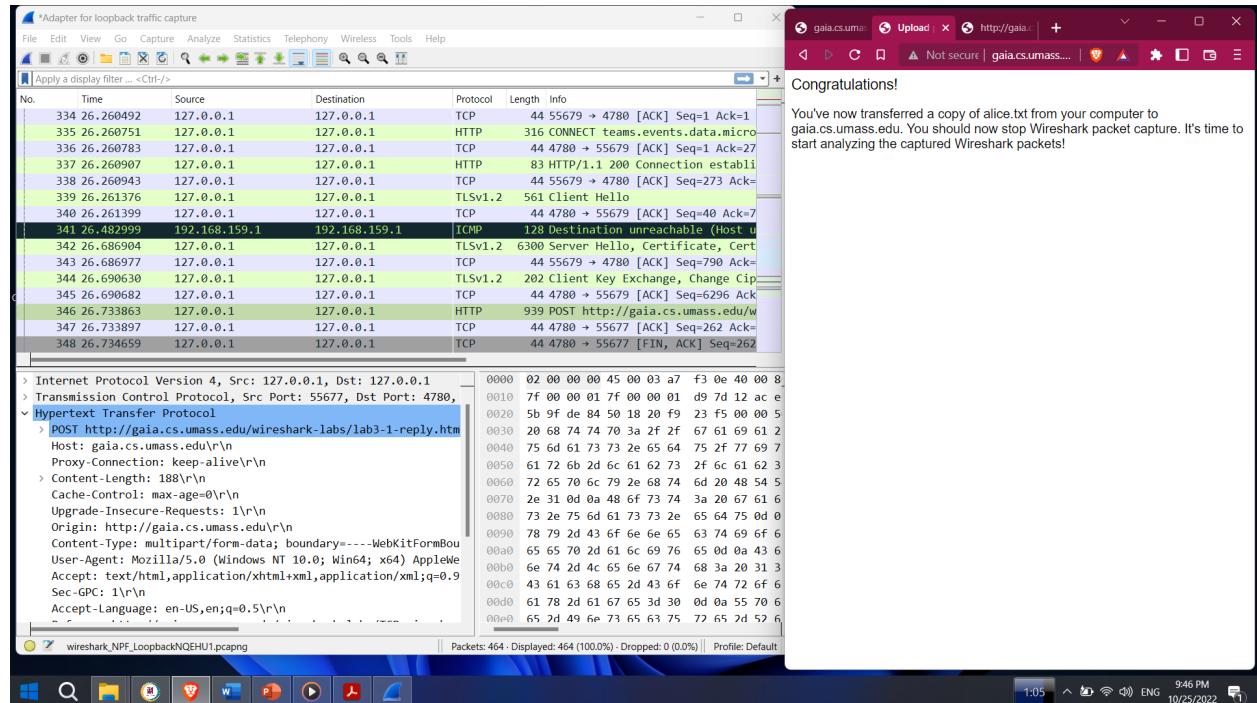


Fig: Got The Congratulations message in browser

Step5

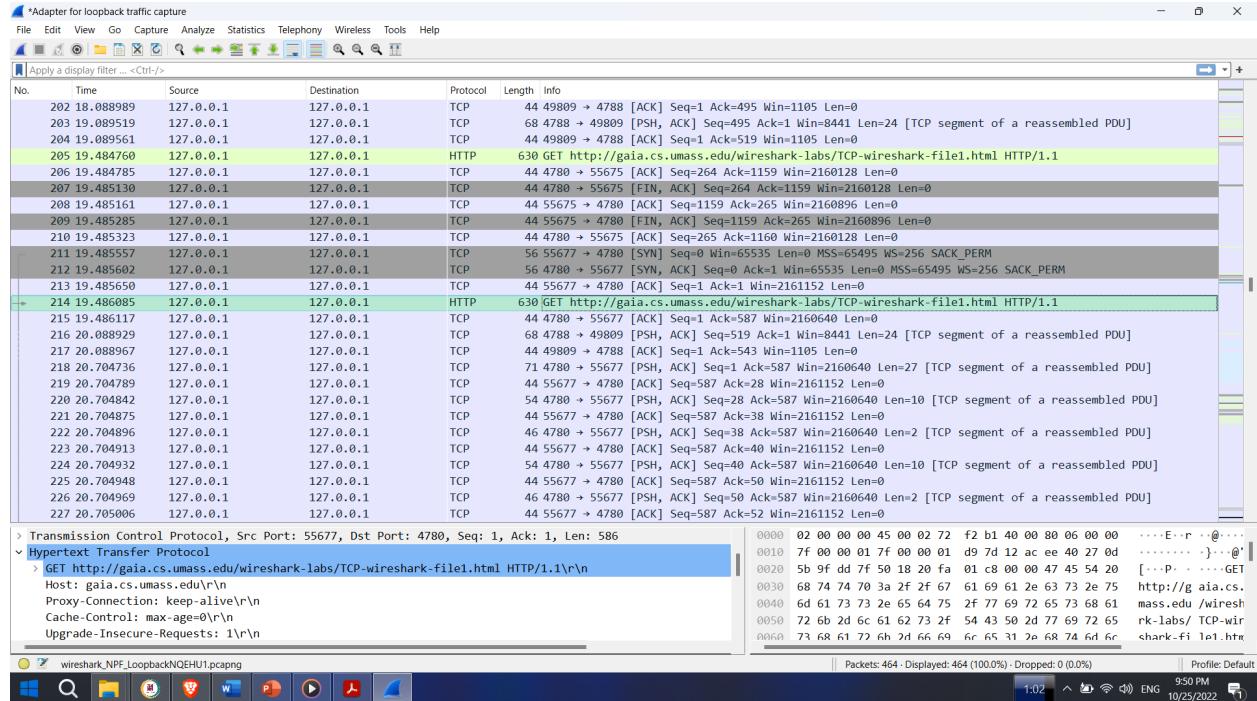


Fig: Stopped Wireshark

Step6

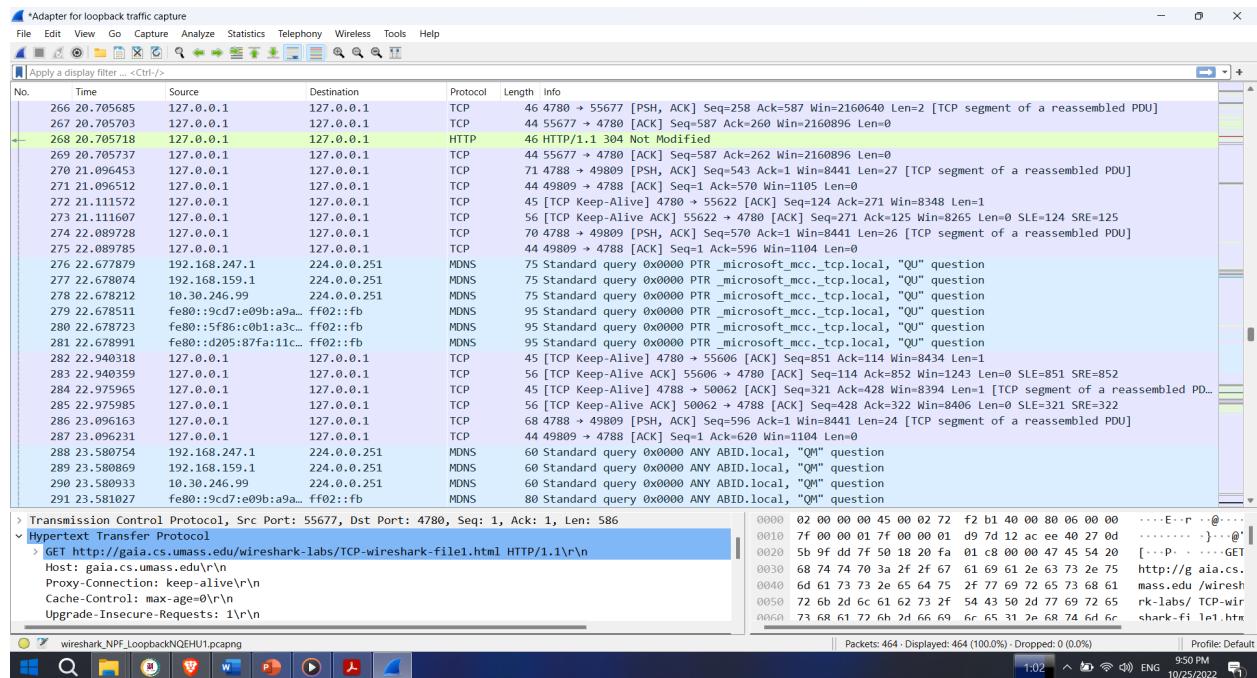


Fig : TCP filtering complete and got the TCP successfully

3. finish the experiment of UDP packets capturing (e.g., video streaming) via wireshark (see pages: 67)

Step1

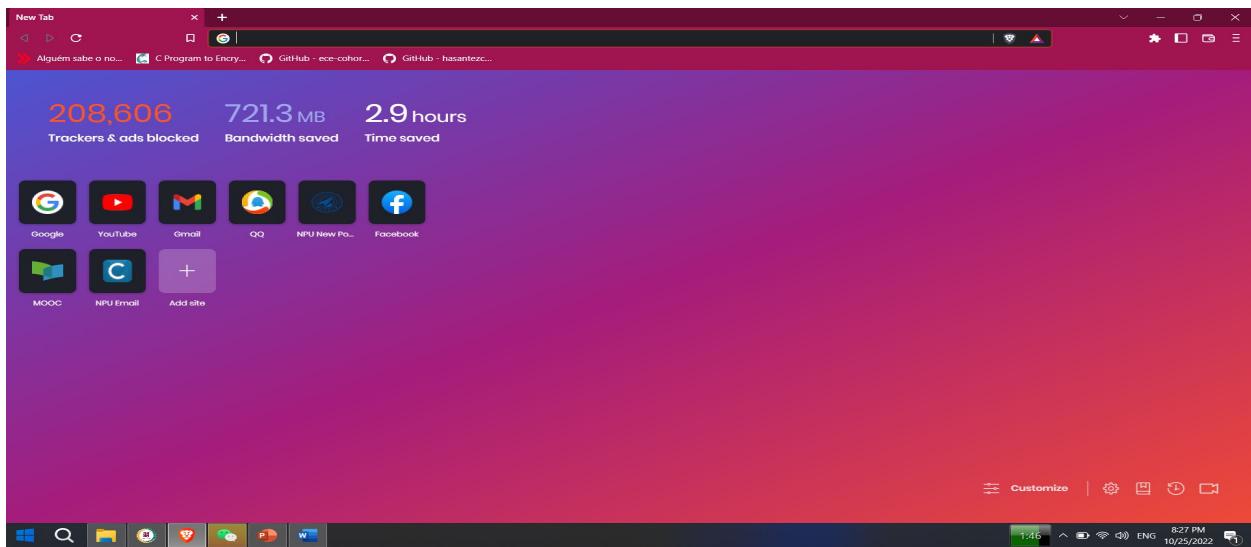


Fig: Opening The Browser

Step2

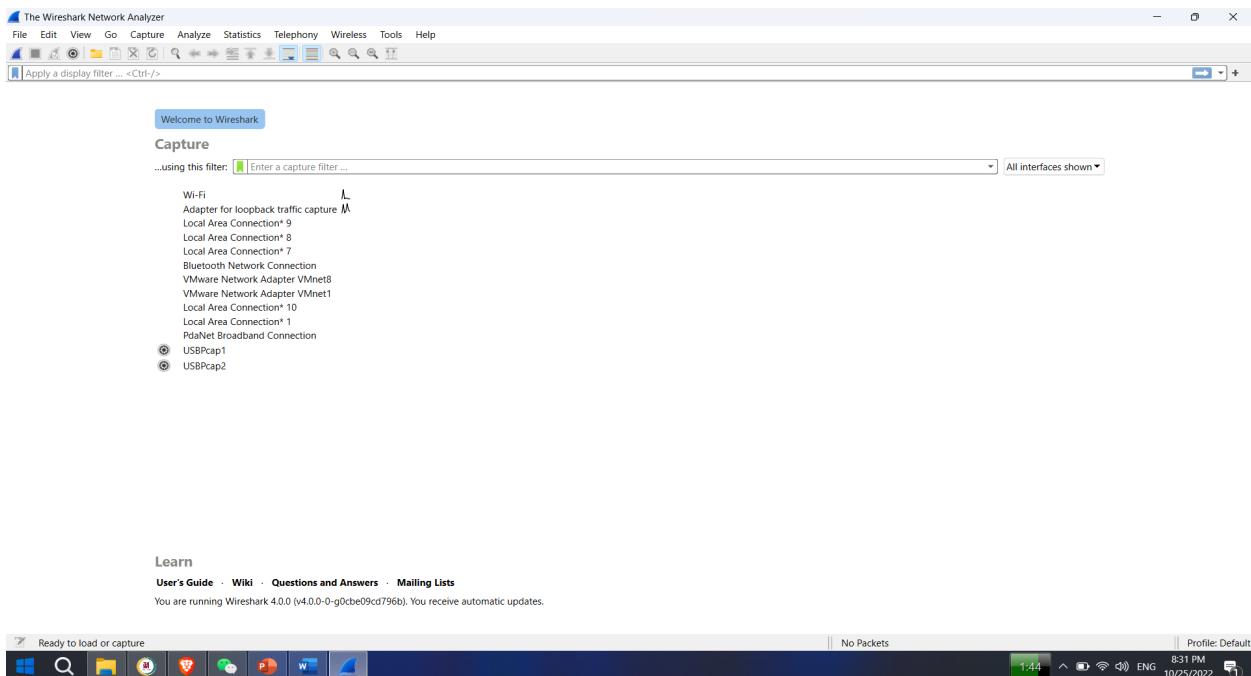


Fig: Open Wireshark Application

Step3

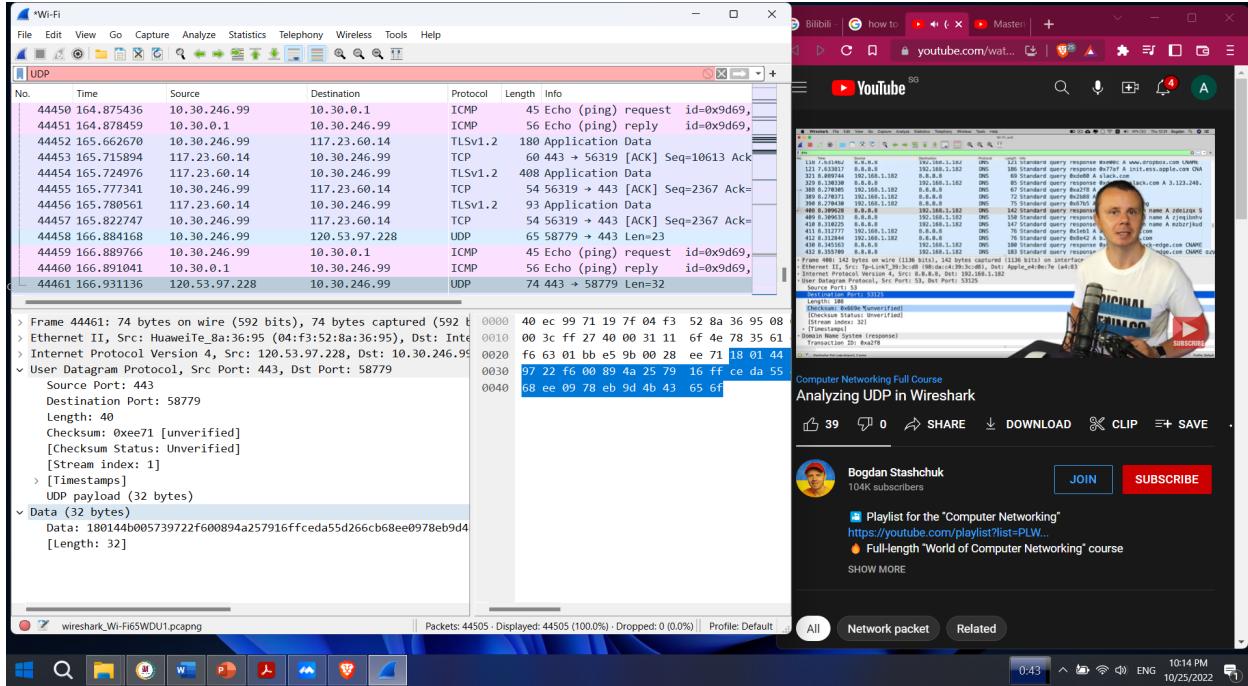


Fig: Wireshark Started and Streaming the Video

Step4

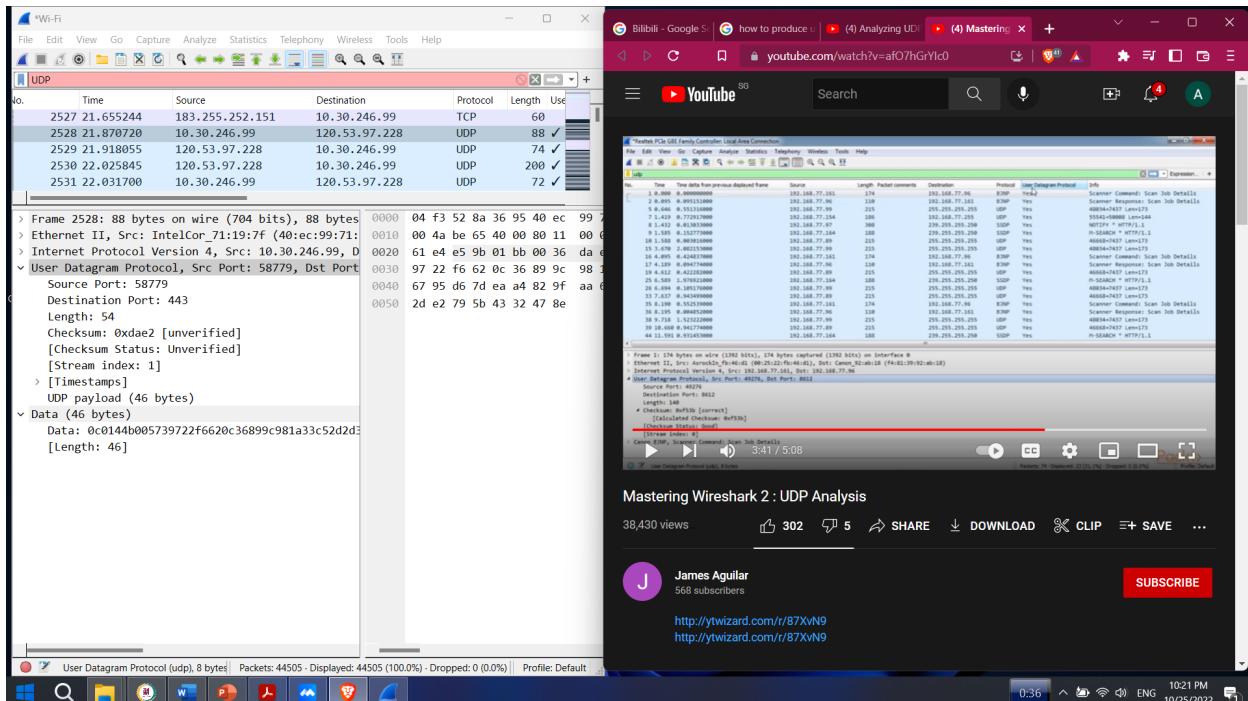


Fig: Wireshark Stopped and filtering UDP