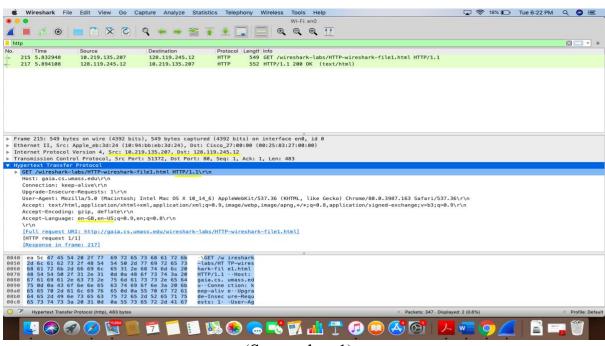
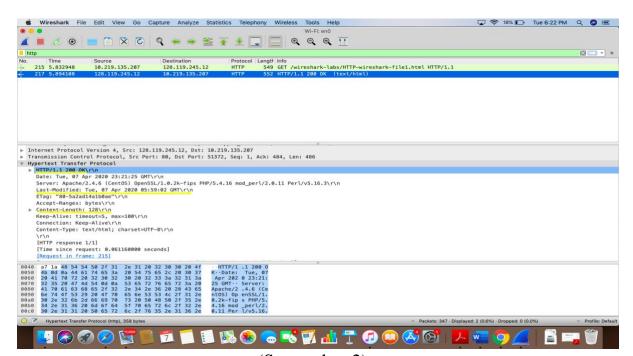
UTA ID: 1001669578

ASSIGNMENT NO.2



(Screenshot-1)



(Screenshot-2)

From Screenshot-1 it is clear that both browser and server are running HTTP version 1.1.

ANSWER NO.2

From Screenshot-1 we get to know what languages our browser can accept to the Server:

Accept Language: en-GB, en-US.

ANSWER NO.3

IP address of Computer: 10.219.135.207

IP address of gaia.cs.umass.edu server: 128.119.245.12

ANSWER NO.4

Status code returned from the server to browser is: HTTP/1.1 200 OK\r\n (From Screenshot-2)

ANSWER NO.5

From the Screenshot-2 we can see when was the file last modified at the server: Last-Modified: Tue, 07 Apr 2020 05:59:02 GMT.

ANSWER NO.6

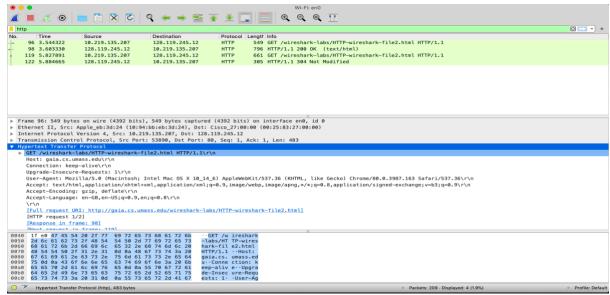
From the Screenshot-2 we can see:

Content-Length: 128

ANSWER NO.7

No, all the headers can be found in the raw data.

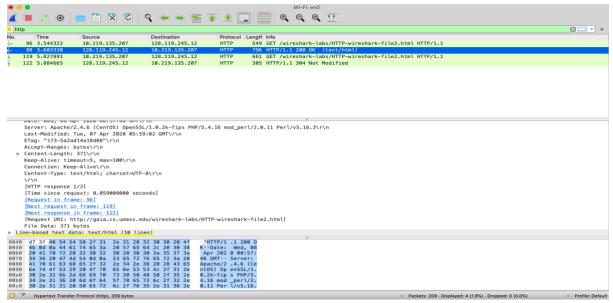
No, not present as it can be observed from the Screenshot-3 below:



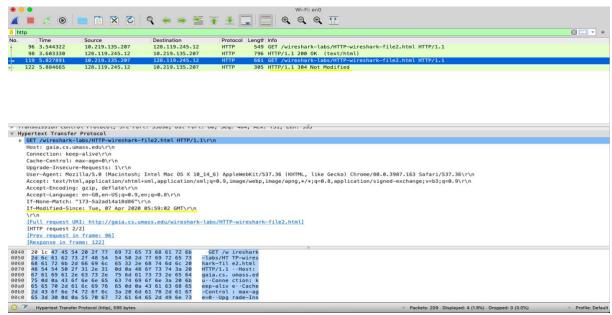
(Screenshot-3)

ANSWER NO.9

Yes, as it can be clearly seen from the Screenshot-4 below that server has returned the contents of the file as it is present in "Line-based text data" field.



(Screenshot-4)

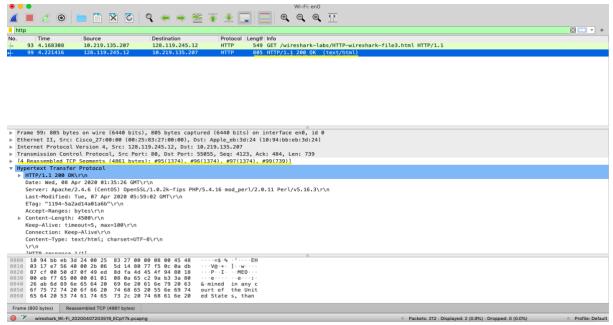


(Screenshot-5)

Yes, as it can be seen from Screenshot-5 above: If-Modified-Since: Tue, 07 Apr 2020 05:59:02 GMT.

ANSWER NO.11

The HTTP status code and phrase returned from the server in response to this second HTTP Get is: 304 Not Modified. (as can be seen from Screenshot-5) The server does not explicitly return the contents of the file as it is already stored in cache.



(Screenshot-6)

My browser send one HTTP GET request message. Packet number 93 in the trace contains the GET message as it can be seen from the Screenshot-6.

ANSWER NO.13

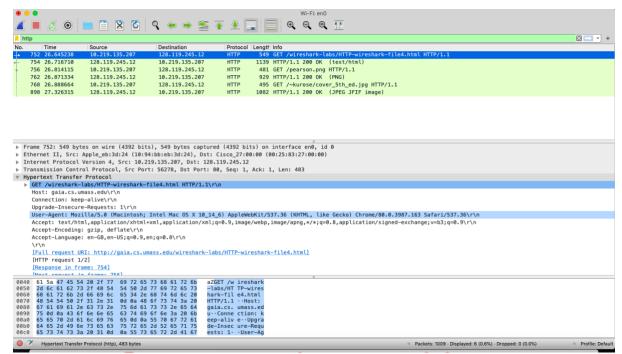
Packet Number 99 in the trace contains the status code and phrase associated with the response as it can be seen from Screenshot-6 above.

ANSWER NO.14

As it can be seen from the Screenshot-6 above the status code and phrase in the response is: 200 OK.

ANSWER NO.15

As it can be seen from the Screenshot-6 above that 4 Reassembled TCP Segments (4861 bytes): #95(1374), #96(1374), #97(1374), #99(739) were needed to carry the single HTTP response and the text of the Bill of Rights.

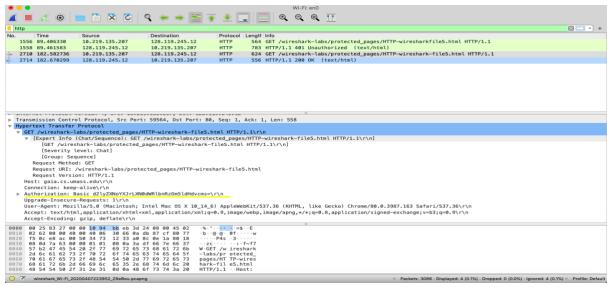


(Screenshot-7)

3 HTTP GET request messages were sent by my browser and they were sent to the following address: 128.119.245.12 (as can be seen from Screenshot-7).

ANSWER NO.17

The browser downloaded the two images serially as first image was requested and then the next image was requested. If they were downloaded in parallel then they would be returned in the same time period but here the second image was requested after the first image was received.



(Screenshot-8)

From Screenshot-8 it can be observed that the Server's response was 401 Unauthorized (text/html) where 401 is Status Code and phrase is Unauthorized (text/html).

ANSWER NO.19

From the Screenshot-8 we can see the new field included in the HTTP GET Message:

Authorization: Basic d2lyZXNoYXJrLxn0dWRlbnRzOm5ldHdvcms=\r\n

REFRENCES

https://www.youtube.com/watch?v=fjalFI11xtE&t=83s