## Wireshark Lab: HTTP

1- HTTP 1.1

2- en-US, en, and tr

3- Source Address: 10.22.77.113

(my computer),

Destination Address: 128.119.245.12 (the gaia.cs.umass.edu server)

4-200

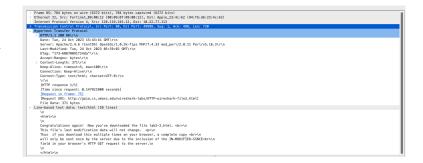
5- Tue, 24 Oct 2023 05:59:02 GMT

6-128

7- No, I do not see.

8- No, I do not see

9- Yes, it did. Line-Based Text Data section is the same as what I saw on the browser.



10- Yes, it is included. The information is the date and time that I last modified the webpage. If-Modified-Since: Tue, 24 Oct 2023 05:59:02 GMT

```
| Bippertext Transfer Protocol
| GET Agricebark-labs/HTTP-wiresbark-file2.html HTTP/1.1V/n
| Biotz pala.c.vanuss.edu/vir
| Comection: Responding vir
| Responding vir
| Comection: Responding vir
| Res
```

11- The HTTP status code is "304: Not Modified". The server didn't provide the file's contents because the browser had stored a cached copy, and since the file hadn't changed since the last access, it instructed the browser to fetch the old cached version.

12- My browser sent 1 HTTP GET request to the server. The packet number was 207.

13- It was 222.

| NtD | No. | Time | Source | Destination | Protocol Length | Info | 207 3.680393 | 18.22.77.113 | 128.119.245.12 | HTTP | 541 GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1 | 1165 HTTP/1.1 200 OK (text/html)

14- Status Code: 200 Response Phrase: OK 15-4 TCP segments

## 16- 3 http GET message requests

<mark>∥</mark> http					
No.	Time	Source	Destination	Protocol Length	ı Info
	84 3.132532	10.22.77.113	128.119.245.12	HTTP	541 GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1
	99 3.283148	128.119.245.12	10.22.77.113	HTTP	105 HTTP/1.1 200 OK (text/html)
	103 3.315585	10.22.77.113	128.119.245.12	HTTP	487 GET /pearson.png HTTP/1.1
	109 3.400972	10.22.77.113	178.79.137.164	HTTP	466 GET /8E_cover_small.jpg HTTP/1.1
	112 3.464770	128.119.245.12	10.22.77.113	HTTP	1165 HTTP/1.1 200 OK (PNG)
	116 3.474212	178.79.137.164	10.22.77.113	HTTP	237 HTTP/1.1 301 Moved Permanently

1- [Full request URI: <a href="http://">http://</a> gaia.cs.umass.edu/wireshark-labs/ HTTP-wireshark-file4.html]

Destination Address: 128.119.245.12

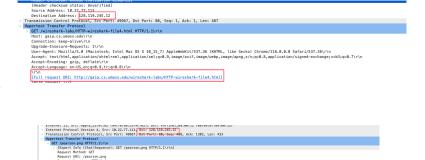
2- [Full request URI: http:// gaia.cs.umass.edu/pearson.png]

Destination Address: 128.119.245.12

3- [Full request URI: <a href="http://">http://</a>

kurose.cslash.net/8E cover small.jpg]

Destination Address: 178.79.137.164





17- The two image object file were downloaded in parallel. This is evidenced by the fact that two GET request messages (for the image objects) are made before either of the image objects are received.

ansmission Control Protocol, Src Port: 50161, Dst Port: 80, Seq: 1, Ack: 1, Len: 588

18- Status Code: 401

Response Phrase: Unauthorized

```
| Expert Info (Oat/Sequence): HTTP/1.1 401 Unauthorized\n| |
| Expert Info (Oat/Sequence): HTTP/1.1 401 Unauthorized\n| |
| Expert Info (Oat/Sequence): HTTP/1.1 401 Unauthorized\n| |
| Expert Set Prize (Info (Oat/Sequence): HTTP/1.1 401 Unauthorized\n| |
| Expert Set Prize (Unauthorized\n| |
| Expert Set Prize (Info (Cantis)) |
| Expert Set Unauthorized\n| |
| Expert Info (Oat) |
| E
                                          response 1/1]
since request: 0.145011000 seconds]
```

19. Authorization field

smission Control Protocol, Src Port: 50161, Dst Port: 80, Seq: 1, Ack: 1, Len: 588

rtext Transfer Protocol

Linear Linear