EE4013 Lab 2

Q1: Both are using http 1.1

```
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.52.242.93

Transmission Control Protocol, Src Port: 80, Dst Port: 60092, Seq: 1, Ack: 411, Len: 486

* Hypertext Transfer Protocol

* HTTP/1.1 200 OK\r\n

* [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]

Request Version: HTTP/1.1

Status Code: 200

Response Phrase: OK

Date: Fri, 24 Feb 2017 13:50:31 GMT\r\n

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips PHP/5.4.16 mod_perl/2.0.10 Perl/v5.16.3\r\n

Last-Modified: Fri, 24 Feb 2017 06:59:01 GMT\r\n

ETag: "80-5494143bd0885"\r\n
```

Q2: English(US)

```
Accept-Encoding: gzip, deflate, sdcn\r\n
Accept-Language: en-US,en;q=0.8\r\n
\r\n
```

Q3: Server: 128.119.245.12 My computer: 10.52.242.93

Q4: Status code: 200

Q5: Last modified: Friday 24/Feb/2017 06:59:01 GMT

Q6: 128 bytes

Last-Modified: Fit, 24 Feb 201/ 00:59:01 GMI/L/II

ETag: "80-5494143bd0885"\r\n Accept-Ranges: bytes\r\n

▶ Content-Length: 128\r\n

Keep-Alive: timeout=5, max=100\r\n

Connection: Keep-Alive\r\n

Content-Type: text/html; charset=UTF-8\r\n

Q7: Accept-Ranges

Last-Modified: Fri, 24 Feb 2017 06:59:01 GMT\r\n

ETag: "80-5494143bd0885"\r\n

Accept-Ranges: bytes\r\n

▼ Content-Length: 128\r\n [Content length: 128]

Keep-Alive: timeout=5, $max=100\r\n$

Q8: No

Hypertext Transfer Protocol

▼ GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n

▶ [Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file2.html H7

Request Method: GET

Request URI: /wireshark-labs/HTTP-wireshark-file2.html

Request Version: HTTP/1.1 Host: gaia.cs.umass.edu\r\n

User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:51.0) Gecko/20100101 Fire

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\n

Accept-Language: en-US,en;q=0.5\r\n Accept-Encoding: gzip, deflate\r\n

Q9: Yes. The content matches

\n
<html>\n
\n
Congratulations again! Now you've downloaded the file lab2-2.html.
\n
This file's last modification date will not change. \n
Thus if you download this multiple times on your browser, a complete copy
\n
will only be sent once by the server due to the inclusion of the IN-MODIFIED-SINCE
field in your browser's HTTP GET request to the server.\n
\n
</html>\n

Q10: Yes, follwed by time of first link

Request Version: HTTP/1.1 Host: gaia.cs.umass.edu\r\n

User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:51.0) Gecko/20100101 Firefox/51.0\r\n

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\n

Accept-Language: en-US, en; q=0.5\r\n Accept-Encoding: gzip, deflate\r\n Connection: keep-alive\r\n Upgrade-Insecure-Requests: 1\r\n

If-None-Match: "173-5494143bd00b5"\r\n

Cache-Control: max-age=0\r\n

Q11: Status code: 304

Response Phrase: Not Modified

The server did not explicitly return the contents again, as the status code of 304 indicated no change.

MILIE/I.I 304 NOT MODITER / III

▶ [Expert Info (Chat/Sequence): HTTP/1.1 304 Not Modified\r\n]

Request Version: HTTP/1.1

Response Phrase: Not Modified

Date: Fri, 24 Feb 2017 14:41:26 GMT\r\n

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips PHP/5.4.16 mod_perl/2.0.10 Perl/v5.16.3\r\n

Q12: Browser sent 1 GET request

[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file3.html]

[Response in frame: 31]

Packet Number: 25

100	TO 14.40.55.105040010 TO.05.545.00	20.20.00.121	111.11	303 GET / HCGITCH_GHCGK. J3:13-140/34//02033 HTTF/1.1
	21 14:49:22.484319937 23.23.99.127	10.52.242.93	HTTP	571 HTTP/1.1 200 OK (text/javascript)
-	25 14:49:24.042983521 10.52.242.93	128.119.245.12	HTTP	431 GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1
	31 14 49 24 154544675 128 119 245 12	10 52 2/2 93	HTTD	2880 HTTP/1 1 200 OK (text/html)

Q13: Packet number: 31

19 14:49:22.1823458/0 10.52.242.93	23.23.99.12/	HTTP	363 GET /health_check.js?ts=148/94//62095 HTTP/1.1
21 14:49:22.484319937 23.23.99.127	10.52.242.93	HTTP	571 HTTP/1.1 200 OK (text/javascript)
25 14:49:24.042983521 10.52.242.93	128.119.245.12	HTTP	431 GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1
31 14:49:24.154544675 128.119.245.12	10.52.242.93	HTTP	2880 HTTP/1.1 200 OK (text/html)

Q14: Status Code: 200 Response Phrase: OK

Hypertext Transfer Protocol

► [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
Request Version: HTTP/1.1

Date: Fri, 24 Feb 2017 14:49:24 GMT\r\n

Q15: 2 TCP Segments were required

| [2 Reassembled TCP Segments (4861 bytes): #29(2047), #31(2814)]

| Hypertext Transfer Protocol
| v HTTP/1.1 200 OK\r\n

Q16: 4 GET requests sent

49 15:03:21./1050018/ 10.52.242.93	128.119.245.12	HITP	431 GET /WITESNATK-TADS/HTTP-WITESNATK-TITE4.NUML HTTP/1.1
55 15:03:22.028135059 128.119.245.12	10.52.242.93	HTTP	1139 HTTP/1.1 200 OK (text/html)
57 15:03:22.050498538 10.52.242.93	128.119.245.12	HTTP	388 GET /pearson.png HTTP/1.1
67 15:03:22.197873905 128.119.245.12	10.52.242.93	HTTP	781 HTTP/1.1 200 OK (PNG)
71 15:03:22.198518232 10.52.242.93	128.119.240.90	HTTP	402 GET /~kurose/cover_5th_ed.jpg HTTP/1.1
76 15:03:22.401947281 128.119.240.90	10.52.242.93	HTTP	522 HTTP/1.1 302 Found (text/html)
89 15:03:22.408636431 10.52.242.93	128.119.240.90	HTTP	402 GET /~kurose/cover_5th_ed.jpg HTTP/1.1
209 15:03:23.030457095 128.119.240.90	10.52.242.93	HTTP	2154 HTTP/1.1 200 OK (JPEG JFIF image)

Q17: Images were downloaded serially, as an OK was received before the next GET

49 15:03:21./1050618/ 10.52.242.93	128.119.245.12	HTTP	431 GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1
55 15:03:22.028135059 128.119.245.12	10.52.242.93	HTTP	1139 HTTP/1.1 200 OK (text/html)
57 15:03:22.050498538 10.52.242.93	128.119.245.12	HTTP	388 GET /pearson.png HTTP/1.1
- 67 15:03:22.197873905 128.119.245.12	10.52.242.93	HTTP	781 HTTP/1.1 200 OK (PNG)
71 15:03:22.198518232 10.52.242.93	128.119.240.90	HTTP	402 GET /~kurose/cover_5th_ed.jpg HTTP/1.1
76 15:03:22.401947281 128.119.240.90	10.52.242.93	HTTP	522 HTTP/1.1 302 Found (text/html)
89 15:03:22.408636431 10.52.242.93	128.119.240.90	HTTP	402 GET /~kurose/cover_5th_ed.jpg HTTP/1.1
209 15:03:23 030457095 128 119 240 90	10.52.242.93	HTTP	2154 HTTP/1.1 200 OK (JPEG JETE image)

Q18: Response: 404 Not Found

(entered username and password correctly so not sure what's wrong)

-	31 15:12:37.391918437 10.52.242.93	128.119.245.12	HIIP	505 GET /WIRESNARK-LADS/PROTECTED_PAGES/HTTP-WIRESNARKTILE5.NTM
4	38 15:12:37.693237956 128.119.245.12	10.52.242.93	HTTP	595 HTTP/1.1 404 Not Found (text/html)
	48 15:12:47.214466086 10.52.242.93	128.119.245.12	HTTP	505 GET /wireshark-labs/protected_pages/HTTP-wiresharkfile5.htm
	50 15:12:47.523710723 128.119.245.12	10.52.242.93	HTTP	595 HTTP/1.1 404 Not Found (text/html)
	65 15:12:52.521524755 10.52.242.93	128.119.245.12	HTTP	489 GET /wireshark-labs/protected_pages/HTTP-wiresharkfile5.htm
	70 15:12:52.848241972 128.119.245.12	10.52.242.93	HTTP	783 HTTP/1.1 401 Unauthorized (text/html)

▼ Authorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcms=\r\n

Credentials: wireshark-students:network