Exercise 3:

Q1



The status code is 200 and the phrase is OK.

Q2

1)The HTML file that the browser is retrieving was last modified on Tue, 23 Sep 2003 05:29:50 GMT, it was indicated from the Last-Modified header.

2)Yes, there is a DATE header. The DATE header indicates the date and time when this response message is generated by the server and sent to the client. The Last-Modified header stores the latest date and time when HTML file was changed.

Q3

The connection is persistent because the Connection header is "Keep-Alive". The Connection general header controls whether or not the network connection stays open after the current transaction finishes. If the value sent is keep-alive, the connection is persistent and not closed, allowing for subsequent requests to the same server to be done.

Q4

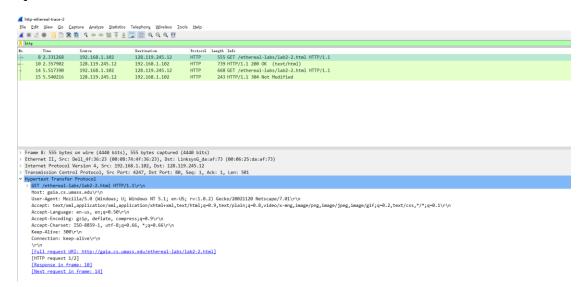
According to content-length header, the length of the content being returned to the client is 73 bytes.

Q5

According to Content-Type header, the data contained inside the HTTP response packet is HTML text file.

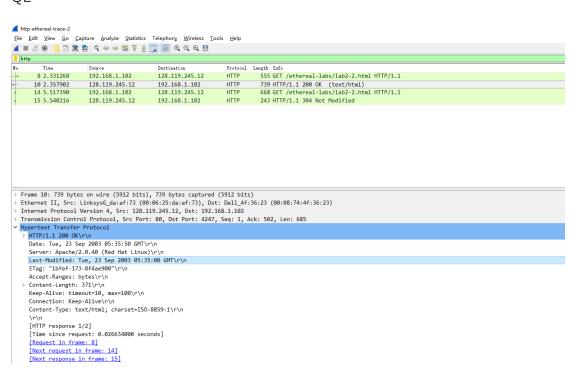
Exercise 4

Q1



No, there is not a line called "IF-MODIFIED-SINCE".

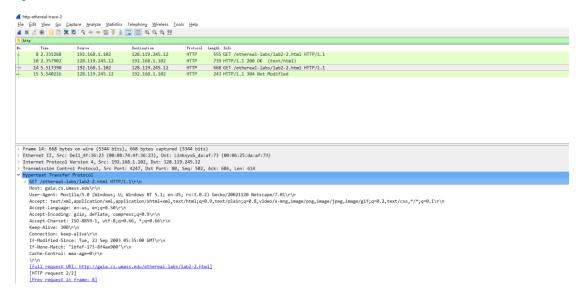
Q2



Yes, the response message indicates the last time that the requested file was

modified.

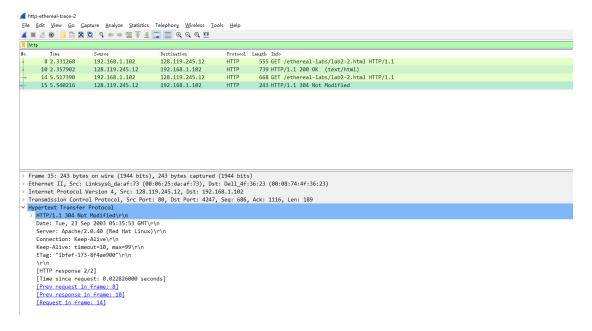
Q3



Yes, there is a "If-Modified-Since" header and a "If-None-Match" header. The information in "If-Modified-Since" header indicates the date and time of the modification of the object being requested, the value in this line is stored on a proxy server when a previous request is sent to a server through this proxy server.

The "If-None-Match" header contains an Etag. The ETag HTTP response header is an identifier for a specific version of a resource.

Q4



The status code is 304 and phrase is Not Modified. The server did not return the content of the file, because "304 Not Modified" indicates that the file being requested has not been changed since Tue, 23 Sep 2003 05:35:00 GMT, and that means the version of the file stored on the proxy server is able to be sent to the client without any loss of modifications. So there is no need for the server to send the whole file again, which may cause waste of bandwidth.

Q5

The value of the Etag field in the 2nd response message is 1bfef-173-8f4ae900. Etags are used to identify a specific version of a resource and similar to fingerprints and might also be used for tracking purposes by some servers.

It has not changed since the 1st response message was received.

