Exercise 3

1. 200 OK

2. Last modified: Tue, 23 Sep 2003 05:29:00 GMT

Yes there is a date header.

The last modified is the last time the file was modified/edited whereas date is when the server sent the HTTP response

3. The connection is persistent since in the HTTP response, the connection header says "Keep-Alive".

4. 73 bytes - from the Content-length header

5. The data in the HTTP response packet is text/html - from the content-type header

Exercise 4

1. No

2. Yes - Tue, 23 Sep 2003 05:35:00 GMT

3. Yes this GET request has IF-MODIFIED-SINCE and IF-NONE-MATCH headers. IF-MODIFIED-SINCE has a date which only if the file has been modified after, it will fetch the file. IF-NONE-MATCH has a tag that is used to match with the existing resources tag.

4. 304 Not Modified. No the server didnt return the contents of the file since it wasnt modified.

5. Etag: "1bfef-173-8f4ae900". No the value hasn't changed

Exercise 5

Sample output:

ping to 127.0.0.1, seq = 0, rtt = 198 ms

ping to 127.0.0.1, seq = 1, rtt = 105 ms

ping to 127.0.0.1, seq = 2, rtt = 27 ms

ping to 127.0.0.1, seq = 3, rtt = 75 ms

ping to 127.0.0.1, seq = 4, rtt = 16 ms

ping to 127.0.0.1, seq = 5, rtt = 10 ms

ping to 127.0.0.1, seq = 6, rtt = 105 ms

ping to 127.0.0.1, seq = 7, rtt = 158 ms

ping to 127.0.0.1, seq = 8, rtt = 32 ms

ping to 127.0.0.1, seq = 9, time out

min rtt: 10

max rtt: 198

avg rtt: 80