CS224 (m): Computer Networks (minor)
Tutorial 02, 03/05 Aug 2016

Concepts tested: HTTP protocol, HTTP format, HTTP proxy/cache

1. Use telnet to connect to a web server and download a webpage.

2. Demonstrate the use of If-None-Match or If-Modified-Since header, using telnet as above.

3. Use wireshark and wget to observe a HTTP request/response for a webpage with no embedded objects. You can use the following URL if you like: `http://www.cse.iitb.ac.in/~br/test.txt`
   What version of HTTP does wget use?

4. Use wireshark and a browser to demonstrate browser caching. In wireshark, identify the HTTP headers related to caching.

5. Observe the HTTP requests/responses for embedded objects in a webpage.

6. Demonstrate the use of persistent TCP connections by your browser.

7. Demonstrate the use of the Host header line by your browser, while access a webpage via IITB's proxy server.

8. Demonstrate caching at IITB's proxy server. This requires some careful thinking before you fire off a webpage load! You may find the following website useful, to download various medium sized PDF files: `http://citeseerx.ist.psu.edu/`