

CS-374/672 Computer Networks: Fall 2010

Assignment 2

We often access the web through a proxy. In this assignment, you have to write a program using Java sockets to download the main page and logo from www.google.com. The proxy configuration is as follows:

Server: 10.22.4.30
Port: 3128
Login: csl374
Password: csl374

You have to figure out the HTTP protocol for proxy access on your own. It will help to look at Wireshark traces from your browser, and to glance through the HTTP 1.1 RFC. For simplicity, just write a single class called `HttpProxyDownload`, which should function as follows on java 1.6:

```
> javac HttpProxyDownload.java
```

```
> java HttpProxyDownload www.google.com 10.22.4.30 3128 csl374 csl374
```

where, as would be obvious, the command line arguments are the URL, proxy IP, proxy port, login, and password. Do not hardcode any parameters in your program! Your program should work even if the login/password changes, or Google changes its logo image.

You will submit just the single `HttpProxyDownload.java` file, and briefly describe your approach in comments at the starting of the file.