# Homework 1

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1. d. **What is the first line received from the server?**
   HTTP/1.0 302 Found

   e. **What is the meaning of the numeric status code you receive in this line (from prior question)?**
   It means it redirected me to another location.

   f. **In general, what does the command "GET /" do?**
   Send a get request to the root of the given domain.

   g. **Write the equivalent URL to access this site, as performed in part f. . . ?**
   http://www.csun.edu/

   h. **Now retry with the command "GET /xxyz.html HTTP/1.1" on line 1 (and be sure to put Host: www.csun.edu on the next line) What do you receive this time?**
   HTTP/1.1 404 Not Found and an html for the csun 404 page.

   i. **What is the meaning of the status code from part h?**
   Requested file doesn't not found ie doesnt exist.

   j. **What web-server type and version is being run at www.csun.edu from the info returned in part i?**
   Apache/2.2.3

2. a. **What is the complete path of the file djedhi.html on the server?**
   /var/www/the/last/djedhi.html

   b. **What is the domain name of the server?**
   adamkaplan.org

   c. **What is the protocol being used?**
   HTTPS

   d. **What port (on the server) will the web browser try to connect to for this request?**
   Port 443 since its an HTTPS connection.

3. a. **What is the Session Transcript for the domain www.cs.ucla.edu?**

   ```
   - - - mx:www.cs.ucla.edu

   1 g.edu-servers.net 192.42.93.30 NON-AUTH 34 ms Received 4 Referrals , rcode=NO_ERROR ucla.edu. 172800
       IN NS ns1.dns.ucla.edu,ucla.edu. 172800 IN NS ns2.dns.ucla.edu,ucla.edu. 172800 IN NS
       ns3.dns.ucla.edu,ucla.edu. 172800 IN NS ns4.dns.ucla.edu,
   2 ns2.dns.ucla.edu 54.201.38.106 AUTH 72 ms Received 1 Referrals , rcode=NO_ERROR cs.ucla.edu. 14400 IN
       SOA mname=NS0.CS.UCLA.EDU rname=Postmaster.CS.UCLA.EDU serial=2021030900,
   LookupServer 274ms
   ```

   b. **What is the Session Transcript for the fictional domain adamkaplan.org?**

   ```
   - - - mx:adamkaplan.org

   1 c0.org.afilias-nst.info 199.19.53.1 AUTH 27 ms Received 1 Referrals , rcode=NAME_ERROR org. 900 IN
       SOA mname=a0.org.afilias-nst.info rname=noc.afilias-nst.info serial=2014285034,
   LookupServer 55ms
   ```

c. **What is the Session Transcript for the fictional domain flatitude.google.com?**

```
- - - mx:flatitude.google.com

1 f.gtld-servers.net 192.35.51.30 NON-AUTH 35 ms Received 4 Referrals , rcode=NO_ERROR google.com.
    172800 IN NS ns2.google.com,google.com. 172800 IN NS ns1.google.com,google.com. 172800 IN NS
    ns3.google.com,google.com. 172800 IN NS ns4.google.com,
2 ns1.google.com 216.239.32.10 AUTH 2 ms Received 1 Referrals , rcode=NAME_ERROR google.com. 60 IN SOA
    mname=ns1.google.com rname=dns-admin.google.com serial=362682143,
LookupServer 104ms
```

4. **URL:** http://akaplan.edu/echo.php?a=b&q=15&d=funk&c=4&b=2&e=z

5.     a. **csun.edu** 30 hops

      b. **youtube.com** 9 hops

      c. **www.cs.vu.nl** 27 hops

6.   Packet #1: Source Host A  Dest Host B  Seq Num 42  flags: SYN

    Packet #2: Source Host B  Dest Host A  Seq Num 109  ACK Num 43  flags: SYN, ACK

    Packet #3: Source Host A  Dest Host B  Seq Num 43  ACK Num 110  flags: ACK