

Assignment 1
Web Science CS595
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```

2:sirius.cs.odu.edu - default* - SSH Secure Shell
File Edit View Window Help
Quick Connect Profiles

% curl -i --data "first_name=Amara&last_name=naas&email=amaranaas@gmail.com&com
ments=VERY%20GOOD" http://www.cs.odu.edu/~anaas/html_form_send.php
HTTP/1.1 200 OK
Date: Thu, 12 Sep 2013 19:45:28 GMT
Server: Apache/2.2.17 (Unix) PHP/5.3.5 mod_ssl/2.2.17 OpenSSL/0.9.8q
X-Powered-By: PHP/5.3.5
Content-Length: 418
Content-Type: text/html

<htm>
<head>
<title>Thank You</title>
</head>
<body>
<p>Form details below.</p>
<table border="1">
<tr><td>First Name</td><td>Amara</td></tr>
<tr><td>Last Name</td><td>naas</td></tr>
<tr><td>Email</td><td>amaranaas@gmail.com</td></tr>
<tr><td>Telephone</td><td></td></tr>
<tr><td>Comments</td><td>VERY GOOD</td></tr>
</table>
<p>Thank you for contacting us. We will be in touch with you very soon.</p>
</body>
</html>
% curl -i --data "first_name=Amara&last_name=naas&email=amaranaas@gmail.com&com
ments=VERY%20GOOD" http://www.cs.odu.edu/~anaas/html_form_send.php > frm.html
% Total      % Received % Xferd Average Speed   Time    Time     Time  Current
100    496    100    418    100     78   44009    8212  --:--:--  --:--:--  --:--:--  59714
%

```

Figure 1: Client Request and Server Response

Question 1 In order to use "curl" to correctly POST data to a form, we can use the command and talk to the http server as following:

Client request: curl -i -data "parameter 1 = ...& param 2=... and so" http://www. [the page that we will post data to] The server response should reply with 200 Success code which means that the action was successfully received, understood, and accepted.

figure 1 show an example of posting the first name, last name, email, telephone, and comments data to the form http://www.cs.odu.edu/~anaas/html_form_send.php figure 2, and 3 show the form and how it look like, the server response on the browser, and the server response while using the prompt that shown in the frm file.

CS www.cs.odu.edu/~anaas/ x

← → ↻ 🏠 📄 www.cs.odu.edu/~anaas/htmlform.htm ☆ ☰

First Name *

Last Name *

Email Address *

Telephone Number

Comments *

VERY GOOD

Figure 2: HTML FORM

Thank You x

← → ↻ 🏠 📄 file:///Z:/frm.html ☆ ☰

Form details below.

First Name	Amara
Last Name	naas
Email	amaranaas@gmail.com
Telephone	
Comments	VERY GOOD

Thank you for contacting us. We will be in touch with you very soon.

Thank You x

← → ↻ 🏠 📄 webspace.cs.odu.edu/~anaas/html_form_send.php ☆ ☰

Form details below.

First Name	Amara
Last Name	naas
Email	amaranaas@gmail.com
Telephone	
Comments	VERY GOOD

Thank you for contacting us. We will be in touch with you very soon.

(a) File View with HTML response

(b) HTML Response

Figure 3: Server Response using the prompt and the browser

```
Assignment1.py
1  #!/usr/bin/python
2  from bs4 import BeautifulSoup
3  import urllib2
4  import re
5  from datetime import *
6  from time import *
7  redditFile = urllib2.urlopen("http://sports.yahoo.com/college-football/scoreboard/?week=3&conf=")
8  redditHtml = redditFile.read()
9  redditFile.close()
10 soup = BeautifulSoup(redditHtml)
11 team1 = ""
12 team1 = input('Please Enter first team: ')
13 team1= team1[:].lower()
14 team2 = ""
15 team2 = input('Please Enter second team: ')
16 team2= team2[:].lower()
17 tag =0
18 temp1=""
19 temp2=""
20 count=0
21 while 1:
22     for links in soup.find_all('a', attrs={'href': re.compile("ncaaf")}):
23         if count < 6:
24             links.get_text()
25             count=count+1
26         elif tag==0:
27             temp1=links.get_text()
28             if temp1[:].lower() == team1 and tag==0:
29                 tag = 1
30                 continue
31             elif tag == 1 :
32                 tag = 2
33                 value = links.get_text()
34                 continue
35             elif tag == 2:
36                 temp2 = links.get_text()
37                 if temp2[:].lower() == team2 :
38                     #print ("The final Scores between is: %s [%s] %s", temp1, value, temp2)
39                     print "%s%s%s" %(temp1, ' - ',temp2)
40                     print value
41                     print datetime.now()
42                     break
43             else :
44                 tag = 0
45                 continue
46     sleep(60)
```

Figure 4: Python Code

Question 2 The Python in the Figure 4 have three argument which are: the two competitors and the URI. The program downloads the URI and search for the scores for each competitor. It runs each (60) seconds, shows the result, and look for the scores again. Figure 5 shows the result from first and second week on [http://sports.yahoo.com/college-football/scoreboard/?week=\[week 1 or 2\]&conf=](http://sports.yahoo.com/college-football/scoreboard/?week=[week 1 or 2]&conf=)

```
% python Assignment1.py
Please Enter first team: "usc"
Please Enter second team: "hawaii"
USC - Hawaii
30 - 13
% python Assignment1.py
Please Enter first team: "temple"
Please Enter second team: "notre dame"
Temple - Notre Dame
6 - 28
% python Assignment1.py
Please Enter first team: "la monroe"
Please Enter second team: "oklahoma"
LA Monroe - Oklahoma
0 - 34
% python Assignment1.py
Please Enter first team: "ohio"
Please Enter second team: "louisville"
Ohio - Louisville
7 - 49
% python Assignment1.py
Please Enter first team: "lsu"
Please Enter second team: "tcu"
LSU - TCU
37 - 27
% python Assignment1.py
Please Enter first team: "florida"
Please Enter second team: "miami (fl)"
Florida - Miami (FL)
16 - 21
% python Assignment1.py
Please Enter first team: "buffalo"
Please Enter second team: "baylor"
Buffalo - Baylor
13 - 70
% python Assignment1.py
Please Enter first team: "uab"
Please Enter second team: "lsu"
UAB - LSU
17 - 56
% python Assignment1.py
Please Enter first team: "akron"
Please Enter second team: "michigan"
Akron - Michigan
0
%
```

```
% python Assignment1.py
Please Enter first team: "tcu"
Please Enter second team: "Texas Tech"
TCU - Texas Tech
0 - 10
2013-09-12 21:34:52.812690
TCU - Texas Tech
0 - 10
2013-09-12 21:35:52.887869
TCU - Texas Tech
0 - 10
2013-09-12 21:36:52.959975
% python Assignment1.py
Please Enter first team: "tcu"
Please Enter second team: "Texas Tech"
TCU - Texas Tech
3 - 10
2013-09-12 21:47:24.726422
TCU - Texas Tech
3 - 10
2013-09-12 21:48:24.808318
TCU - Texas Tech
3 - 10
2013-09-12 21:49:24.893324
TCU - Texas Tech
3 - 10
2013-09-12 21:50:24.973536
TCU - Texas Tech
3 - 10
2013-09-12 21:44:53.560979
TCU - Texas Tech
0 - 10
2013-09-12 21:45:53.636049
^CTraceback (most recent call last):
  File "Assignment1.py", line 46, in <m
Connected to sirius.cs.odu.edu
```

Figure 5: Results of Python code executions

Question 3 By the definition there is a directed path from each node of IN to (all the nodes of) SCC, there is a directed path from any node in the SCC to every node in OUT, TENDRILS containing nodes that are reachable from portions of IN, or that can reach portions of OUT, without passage through SCC, TUBE is passage from a portion of IN to a portion of OUT without touching SCC that is a TENDRIL hanging off from IN and hooked into a TENDRIL leading into OUT. [?] IN: I,M SCC: J,N OUT: D Tendrils: A,B,C,G Tubes: L Disconnected: E,F,H