



## Homework #3

Due 11:59pm, Sunday, 18 February, 2018

100 points total  
Multiple submissions accepted.

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Name

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1. (51 pts) Complete the second socket lab: **Socket Programming Assignment 2: UDP**  
Look in the Google Drive folder, under “[Socket Programming Assignments](#)” for the file  
“[Socket2\\_UDPpinger](#).” It has instructions on what to turn in.

There is a new tutorial on Blackboard on the initial page written by our TA’s on how to  
install the PyScript interpreter in Windows which requires installing Python and then  
PyScript. However, everything is available for the Mac and for Linux.

Start by going to the installation page for all platforms: <https://www.python.org/downloads/>  
and choose the 2.7.14 release. Then install JetBrains at  
<https://www.jetbrains.com/pycharm/download/>. More information is available in the  
document posted on the initial page in BlackBoard.

If you wish to install Windows on your Mac (and why not, it’s free), you’ll need two  
things: a virtual machine program that will host the Windows OS, and then Windows. For  
the former, there are three popular choices: VMware Fusion (\$100), Parallels (\$40-ish with  
a student ID from educational sellers), and VirtualBox (<https://www.virtualbox.org>), free.

If you need the Windows software to install on top of the virtual machine (or for installing  
on a Windows machine), you can take advantage of UH's participation in [Microsoft's  
Imagine program](#). Read more about that in "[Downloading Windows 10.pdf](#)" in the Extras  
folder on our Google Drive.

Include your code with your homework as a file that the TA’s can download and run. You  
will need to create a ZIP archive as BlackBoard will only allow you to upload a single file.  
Alternatively, since unlimited submissions are allowed, you can upload your homework  
first, and then the Python code.

2. (7x7 pts) Choose your favorite browser. Pick a commercial site that you don't visit and don't care if you have to log in again. Clear the cookies for just that site from your cache. You may have to search the help pages!

In google, here's what I used: <https://support.google.com/chrome/answer/95647?hl=en-419>

In Firefox, I navigated to this site by entering it in the URL field:

about:preferences#privacy

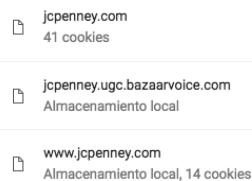
- a. So what's the site you're planning to visit? www.newegg.com

Find and clear any cookies that have the name of the site. Leave the cookie manager open.

I chose [www.jcpenney.com](http://www.jcpenney.com). You should pick another site.

- b. Go to the site's home page. Consult the cookie manager. Were cookies created by opening their home page? yes How many? 4 Include a snapshot of what the cookie manager shows.

For example, here's what Chrome showed me:



> .newegg.com | #28

> apis.newegg.com | #1

> pf.newegg.com | #1

> www.newegg.com | #13

- c. Click on a product on the web page. Observe the URL in your browser after you have clicked on the product. Paste it here.

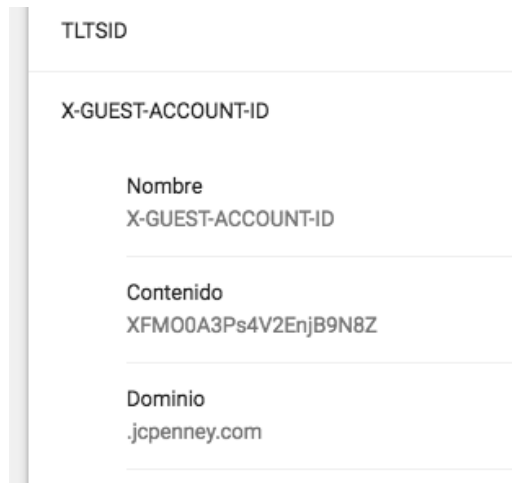
<https://www.jcpenney.com/p/arizona-long-sleeve-thermal-top/ppr5007324806?pTplType=regular&rrec=true&rrplacementtype=norecs>

[https://www.newegg.com/Product/Product.aspx?Item=N82E16824009969&utm\\_medium=Email&utm\\_source=IGNEFL022018C&cm\\_mmc=EMC-IGNEFL022018C--EMC-022018-Latest-Index--LCDLEDMonitors--24009969-S0A&ignorebbbr=1](https://www.newegg.com/Product/Product.aspx?Item=N82E16824009969&utm_medium=Email&utm_source=IGNEFL022018C&cm_mmc=EMC-IGNEFL022018C--EMC-022018-Latest-Index--LCDLEDMonitors--24009969-S0A&ignorebbbr=1)

Do you see a pattern of variables and values encoded in the URL? For example, separated by ampersand symbols (&'s)? **Yes, 022018 is repeated again across the url link!**

- d. Examine one of the cookies. If navigating did not produce a cookie, check your settings, try another browser, or another site. Choose a cookie that looks like it has something that identifies you – a session ID, or a guest ID, that sort of thing, instead of the type of system or your apparent country or language. Inspect the cookie, and paste a snapshot of the details your browser provides. .

Here was the one I chose:



Although most of the fields were readable and had a variable-value combination, the guest account ID looks encrypted or at the least very random: XFM00A3Ps4V2EnjB9N8Z.

What about yours?

Name	Value	Path	Expiration
AKA_A2	1	/NewMyAccount	2/20/2018, 10:42:04 PM
AKA_A2	1	/Common/Ajax	2/20/2018, 10:42:05 PM
ADCOOKIE	1	/NewMyAccount/AccountLogin.aspx	3/22/2018, 10:42:06 PM
NSC_mc-tf dvsf.obxfhh. dpn-ttm	28d4a3dabdbfd99d4f9444cf9bcc2dcfe6d52a85e72c9dc02a44983622bfdbb8ff9cda50	/	2/20/2018, 10:12:20 PM

- e. Add the item to your cart, and then clear the cookies for the domain. Now refresh the page. Is the item still in the cart? **no**

- f. Examine the cookies again. Look for the same cookie from (d). Was it replaced? Does it still have the same unique identifier as before? Mine was not:

Nombre  
X-GUEST-ACCOUNT-ID

---

Contenido  
8ciWGYKAuo1XQbCK4QtU

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**No, it was not replaced. It was otherwise added with more cookies instead**

Name	Value	Path
AKA_A2	1	/NewMyAccount
AKA_A2	1	/Common/Ajax
ADCOOKIE	1	/NewMyAccount/AccountLogin.aspx
NV%SFPRE VIOUSSERV ERNAME	#5%7b%22Sites%22%3a%7b%22USA%22%3a%7b%22Values%22%3a%7b%22sq%22%3a%22E11SHPO2%22%2c%22ss%22%3a%2264%22%2c%22sr%22%3a%22E11%22%7d%2c%22Exp%22%3a%221519271240%22%7d%7d	/
NV%SFSCAR TOTHERINF O	#5%7b%22Sites%22%3a%7b%22USA%22%3a%7b%22Values%22%3a%7b%22s126%22%3a%22sgYEL0P6iB5ZP43ZCAVWb1pX72vmt0zRSL0zR0LPknjKCjG6RyW%252fdFRj5%22%7d%2c%22Exp%22%3a%221519271240%22%7d%7d	/
AKA_A2	1	/Shopping
ADCOOKIE	1	/Shopping/ShoppingCart.aspx
NV%SFOR DERCOOKIE	#5%7b%22Sites%22%3a%7b%22USA%22%3a%7b%22Values%22%3a%7b%22su%22%3a%22False%22%2c%22st%22%3a%22False%22%2c%22se%22%3a%2277433%22%2c%22sg%22%3a%22TX%22%2c%22sv%22%3a%22https%253a%252f%252fwww.newegg.com%252fProduct%252fNewProduct.aspx%253fitem%253dN82E16824009969%2526utm%255Fmedium%253dEmail%2526utm%255Fsource%253dIGNEFL022018C%2526cm%255Fmm%253dEMC-IGNEFL022018C-%255F-EMC-022018-Latest-Index-%255F-LCDLEDMonitors-%255F-24009969-50A%2526ignorebr%253d1%2526RandomID%2534889567320615320520180220194221%22%7d%2c%22Exp%22%3a%221521773261%22%7d%7d	/
NSC_mc-tf dvst.ofxhh. dpm-ttm	28d4a3dabdbfd99d4f9444c9bcc2dcfe6d52a85e72c9dc02a44983622bdfdb8ff9cda50	/

- g. Wait a few minutes and go to a site with google ads. Did you see your cart item? I happened to need to go to aboutus.com/Gvt3.com and look what ads I got! Lol. My browser might not remember what I put in my cart, but Google did!

**Yes, I see my cart item in the google ads in my browser!**

☆☆☆☆ Rating: 0 - 0 votes

**Company Logo**

**Company Name**

**Company Contact**

**Website Analysis**

- [Home Page Analysis](#)
- [Web Presence](#)
- [Home Page Speed](#)


**Domain Whois**

WHOIS information for Gvt3.com

Powered by who.is

**Page Type**

This page is about a company.




 SCEPTRE U275W-4000R 27" 3840x... \$248.99 CLICK	 Acer K2 Series K272HUL 27" WQ... \$339.99 CLICK	 HP Pavilion 32q IPS 32" Display... \$232.99 CLICK	 HP Pavilion 32q IPS 32" Display... \$232.99 CLICK	 Acer K2 Series K272HUL 27" WQ... \$339.99 CLICK	 SCEPTRE U275W-4000R 27" 3840x... \$248.99 CLICK
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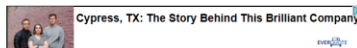
**Title**

gvt3.com

**Additional Information**

**External Links**

- [Alexa: Gvt3.com](#)
- [WHOIS for Gvt3.com](#)



**Gvt3.com**

☆☆☆☆ Rating: 0 - 0 votes

**Company Logo**

**Company Name**

**Company Contact**

**Website Analysis**

- [Home Page Analysis](#)
- [Web Presence](#)
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**Domain Whois**

WHOIS information for Gvt3.com

Powered by who.is

**Page Type**

This page is about a company.


 \$9.50 sale	 \$14.99 sale	 \$9 sale
 \$9.50 sale	 \$12.50 sale	 \$23.70 sale

**Title**

gvt3.com

**Additional Information**

**External Links**

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- [WHOIS for Gvt3.com](#)