

CSCI 101: Problem Solving with Computers

Lab 3: The Basics of Networking

Due Dates **Sec A: 9/21/10 by 11:59 pm; Sec B, C: 9/22/10 by 11:59 pm**

Email to: csci101fall10lab3@gmail.com

Important: please read through the entire lab because it contains useful information – it will save you time in the long run. AND remember you will be tested in concepts taken from both lecture and lab material. It is also highly recommended that you review Chapter 3 and the class presentation. This lab may take more than the lab period – you are always expected to continue lab exercises beyond the class hours.

Goals

1. continue to familiarize yourself with the lab environment and to save your work appropriately - learn where and how to submit your work
2. to incorporate class lectures and discussions into practical experience
3. this lab requires that you explore the world of IP addressing and networking by using resources that have been available to you in class and your book and also by conducting your own research online.

Overview

1. Open Word (from the 'start' menu)
2. Save it on you're the shared drive on your desktop as LastName_FirstName_Lab3 e.g. Hardy_Nazli_Lab3
3. Follow this naming format for all future labs
4. Use the page format found here: [http://cs.millersville.edu/~csweb/lib/userfiles/LabFormat\(2\).pdf](http://cs.millersville.edu/~csweb/lib/userfiles/LabFormat(2).pdf) to set up your answer page for all labs – copy and paste it in your Word document
5. Your work will not be graded unless it follows this format
6. Under no circumstances should there be any sharing of answers
7. **Be sure to save your work on your MyVille Briefcase before you log off** – and you will be able to access your files from anywhere. Remember that even if you save it on the desktop of the lab computer, your work may/ will be lost upon you logging off.

Submission Guidelines

1. Once you have finished the lab(s), please email your document(s) to the email address listed at the top of this page – copy and paste the email address so that you are assured of reaching the correct email address. There will be a new email address for each lab.
2. Please do not email labs to my email account.
3. If you have successfully submitted your lab, you should received the following autoreply:
From: CSCI101 Fall [mailto:csci101fall10lab3@gmail.com]
Sent: Date of Receipt
To: you
Subject: Receipt of Lab

Dear Student,

Your lab has been received.

Thank you,
Dr. Hardy

Resources

Chapter 3 in book and your class slides/ notes and the Internet

Answer the Following Questions:

1. What is the IP address of your computer?
2. In the IP address: `stroustrup.csdomain.millersville.edu` what is the "stroustrup"?
3. In the IP address: `stroustrup.csdomain.millersville.edu` what is the "csdomain"?
4. In the IP address: `stroustrup.csdomain.millersville.edu` what is the "edu"?
5. Using one of the IP address locator services that are available online (and were discussed in class), what is the IP address of `bbc.co.uk`?
6. Using one of the IP address locator services that are available online (and were discussed in class), what is the IP address of `bbc.com`?
7. What do you notice about the IP addresses of `bbc.co.uk` and `bbc.com`? Why is this the case?
8. To what institution does the IP address [128.153.5.254](https://www.iana.org/lookup/128.153.5.254) belong?
9. What is your favorite website?
10. What is the IP address of your favorite website?
11. What are the two letter country codes for the following countries?:
 - Austria
 - Bangladesh
 - China
 - Ireland
 - Kazakhstan
 - Peru
12. `bbc.co.uk` is the URL for a world famous news site. What does the "co" indicate?
13. List 5 major ISPs from around the United States
14. Information that is sent over the Internet is broken up into fixed sized units. What are they called?
15. Why are Web servers important?

BEFORE YOU LOGOUT, ALWAYS SAVE YOUR FILES to your MyVille Briefcase. . In that way your work will be accessible to you from anywhere. In addition, remember that even if you save it on the desktop of a lab computer, your work will be lost upon you logging out.