# **IT 4333: Assignment (NetSH)**

Your Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total points: 100

1. Read articles on [network configuration in windows](http://www.windowsnetworking.com/kbase/WindowsTips/WindowsXP/UserTips/Utilities/Usenetshtoconfigureyourlaptopsnicfordifferentnetworks.html) and [Netsh-part1](http://www.windowsnetworking.com/articles-tutorials/windows-xp/Netsh-Part1.html) **[20 points]**

Provide netsh commands to save and restore network configurations (IP configurations only)

Command to save:

Command to restore:

# ----------------------------------

# Interface IP Configuration (found in the file)

# ----------------------------------

Note: after you save the configuration, open the .txt file, the content of the interface configurations should look like the below screenshot

Save the configuration, open the .txt file, the content of the interface configurations should include statements like
pushd interface
popd
reset
pushd interface ipv4
reset 
set global icmpredirects=enabled
ad address name ="Local Area Connection"
popd
pushd interface ipv6
reset
set interface interface="Teredo Tunneling"
popd

1. Assign static IP to your workstation using netsh command. Note: use values (IPv4, Subnet and Default gateway address) you get after running **ipconfig/all** command to avoid IP conflicts on the network. Provide netsh command for assigning static IP and screenshot (use command *netsh interface ipv4 show config* to show the result) to prove that your modification was successful. [**10 points**]
2. What is an interface metric? How to find an interface metric for each interface (provide the netsh command and screenshot to show the command result)? [**20 points**]
3. Check Internet connectivity. How did you check it and what are the results (provide the netsh command and screenshot to show the command result)? [**10 points**]
4. Assign dynamic IP to your workstation using netsh command. Provide netsh command for assigning dynamic IP and screenshot (use command *netsh interface ipv4 show config* to show the result) to prove that your modification was successful. [**20 points**]
5. Rename “Local Area Connection” interface using netsh command. Use your name as a new network connection name. Provide command and screenshot to prove that your modification was successful. [**10 points**]
6. Find what other network configurations you can control using netsh. Provide example of ONE netsh command and screenshot to prove that your modification was successful. [**10 points**]