Lab 09

Batch file

**Due:** Wednesday November, 2, 2016

**Purpose:**

Batch files are used to automate everyday tasks such as helping a computer technician, network administrator, or a computer programmer diagnose a networking issue or shorten the time it takes to everyday tasks such as compile Java programs.

**Procedure:**

The lab allows you to create a batch file and test your connectivity to your network adaptor.

There are several simple commands I want to familiarize you with for this program. Commands are NOT case sensitive. Feel free to use Google for more information.

**TITLE** - The Window name for the BAT file.

**ECHO** - the “print” statement for BAT files. Anything following the word ECHO will be displayed in the command prompt as text, on its own line.

**ECHO OFF** – BAT writers typically put this at the beginning of their files. It means that the program won’t show the command that you told it to run while it’s running – it’ll just run the command. I’d recommend that after you run this test program, you try removing this line from your code to see what happens.

**PAUSE** - This outputs the “*press any key to continue…*” message that you’ve seen all too many times. It’s helpful because it pauses the batch file execution. If you don’t put this in your program, everything will speed by and end before you can see it. Programmers typically put this in batch files to give the user a chance to review the material on the screen before continuing.

**CLS** - Clears the CMD window

**IPCONFIG** – Outputs network information into your CMD box

**PING** - Pings an IP, letting you know if your computer was able to contact it. This command also returns the latency (ping time) and by default pings three times.

**SET** – Sets a variable. If you want to see what the content of a variable, use the echo command.

With the /p switch you can instruct set to create a new variable based on the users input.

**IF** – The IF command ties together batch processing. The IF command responds to the variable created by the set command.

**GOTO** – The GOTO command tells the command prompt to jump to a new location in the batch file.

Create a new text document on your text desktop. Double click the file – it should be blank inside. Now, go to *file>save as*, and in the “*Save As*” window, input a name for your BAT file and then add a “***.bat***” on the end (without the quotes). For example, when I created the batch file below I named it *ipconfig*.bat.

Right click your BAT file and click “***edit*”** to bring up Notepad and create the batch file.

The batch file should have a menu that allows the user seven options. The batch file should run until the user chooses to quit the batch file

Option 1: allows the user to run the ipconfig command.

Option 2: allows the user to run the ipconfig /all command.

Option 3: allows the user to release their current IP address for their adaptor.

Option 4: allows the user to renew their adaptor’s IP address.

Option 5: allows the user remove all entries from their DNS cache i.e. to flush the cache.

Option 6: allows the user to stop the print spooler. The command to stop the print spooler is **net stop spooler.**

Option 7: allows the user to start the print spooler. The command to start the spooler is: **net start spooler.**

Option 8: ping google.com

Option 9: Tracert google.com

Press Q to stop the batch file from running.