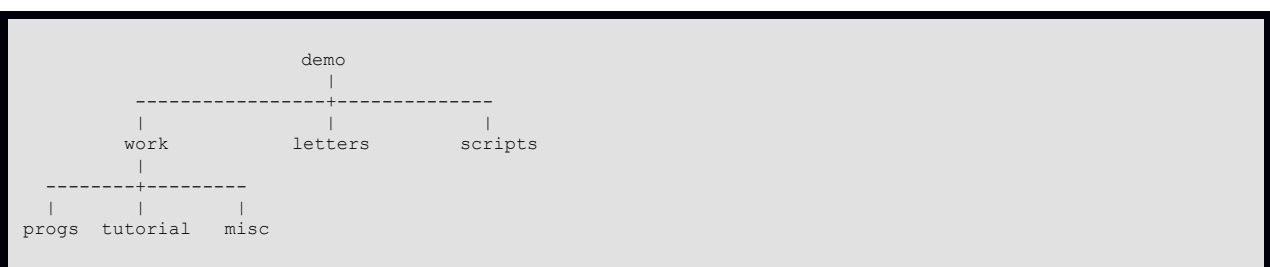


DOS COMMAND LINE EXERCISE

1. Use the `date /t` command to find out which date we are in. You can also use `time /t` command to view the current time. If you do not add parameter `/t`, then you can change the date and time.
2. Use the `dir` command to list all the files/directories (including hidden ones) you have in the default directory. You need to pass an additional option to `dir` command if you want to list the directories as five column format. **What information do the columns give in the list?**
3. Use `cd` command to change directory. It has one parameter as for the path you are changing to. **If you also want to change the current disk part, how can you do that?**
4. Create a new directory in your Desktop by using `md` command by naming it as `CE306`. In this directory, create a new text file called `labs.txt` by using the command `type`. If you want to create an empty file, you can create it with `type nul > ...txt`. **How can you create a file with certain text in it?**
5. You can also use `echo` command to create a text file. Use it to create a new file called `lectures.txt` which has "Welcome to the CE306 Lectures!" text in it.
6. Investigate `>>` operator for appending new text into an already created text file. Append "This is the Spring 2021 Term." string after the earlier contents of `lectures.txt`. Show the contents of this text file in command window by using `type` or `more` command.
7. Copying files can be done with the command `copy`. Use it to copy `labs.txt` file from `CE306` directory to parent directory. **If you want to copy the contents of a text file to another, how can you do that?**
8. Change the name of the file `lectures.txt` to `class.txt` with `ren` command.
9. Delete the file `class.txt` with `del` command.
10. Construct the given directory structure under desktop directory using `cd` and `md` commands. **What is the usage of `chdir` command?**



IPCONFIG & NETSTAT Commands

11. Use `ipconfig -all` command to find out various network addresses and settings. **What are the address types you can see in this window?**

12. Use `netstat` command to investigate your network traffic. This command has many usages with different parameters. Try to use different parameters to find out different aspects of your network.

Compiling & Running Java Files (WINDOWS)

11. Switch to Windows. Open up a text editor and code a Hello class including main that prints out "Hello CE 306!". Save the file as `Hello.java` under Documents folder.

12. Include `javac` in the path via on the command prompt

```
set path=C:\Program Files (x86)\Java\jdk1.8.0_112\bin
```

13. Using `javac Hello.java` on command prompt where the `Hello.java` resides will compile your file. Use `dir` (`ls` command in UNIX) to see the compiled `.class` file in current directory. Then run the program with command `java Hello`.

14. Unix version of compilation & running Java codes can be done with the same way since Java is platform-independent.

References:

[1] Knowledge Base (2021). What are some examples of common DOS commands? Retrieved 23 March, 2021, from <https://kb.iu.edu/d/aerh>

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[3] Computer Hope (2021). MS-DOS and Windows command line netstat command. Retrieved 23 March, 2021, <https://www.computerhope.com/netstat.htm>

[4] Linuxzoo.net. (2018). Welcome to linuxzoo. Retrieved 12 February, 2018, from <https://linuxzoo.net/>