Introduction

- Shell is a program that exposes an operating system's services to users.
- Shell scripts are interpreted (not compiled).
- Shell scripts are case sensitive.
- There are different types of shell: (sh, tcsh, zsh, ksh, csh)
    - /bin/sh (shell)
    - /bin/dash
    - /bin/bash
    - bin/rbash
- List all available shells: `cat /etc/shells`
- Make SSH connection to server: `ssh -Y username@access.cims.nyu.edu`
- End a connection: `~.`

Dealing with files/Folders:

- Print current working directory `pwd`
- Change directory `cd DirName`
- Make a new dir `mkdir DirName`
- Make nested dir `mkdir -p folder1/folder2/f3`
- Remove File `rm FILENAME`
- Remove Directory `rm -r FolderName` OR `rmdir FolderName`
- Move a file to a new location `mv FileName Location`
- Copy an existing file `cp FileName NewFileName`
- Copy an existing folder `cp -r Dir1 Dir2`
- Search for files name in current directory `find FileName`
- Search for files only `find FolderName -type f`
- Search for directories only `find FolderName -type d`
- Search for directories starts with p `find /folder -type d -name 'p*'`
- List all files/folders (including hidden) `ls -a`
- List all files/folders (include additional info) `ls -l`
- List all files/folders (add / after folder name) `ls -p`
- List all files/folders (include additional info. and hidden) `ls -la`
- List all files/folders (include additional info and sizes in easy units) `ls -lh`
- List all files/folders sorted (include additional info and sizes in easy units) `ls -lhS`
- Create a new file `touch FileName`
- Read file content `cat FileName`
- Read file content and display line number `nl FileName`
- Read first ten lines of a file `head FileName`
- Read first 5 lines of a file `head -n 5 FileName`
- Read last ten lines of a file `tail FileName`
- Read last 5 lines of a file `tail -n 5 FileName`

Vim Editor:

- Edit a file `vim FileName`
- Enter insert mode `i`
- Save the file but keep it open `:w`
- Quit without saving `:q`
- Save the file and quit `:wq`

WC: is a Unix/Linux tool used to find word count