Spring 2018 CECS 327

Assignment 3

Total: 40 Points Due: 2/22/2018 11:30PM

## General Instruction

- You may need to do some research to complete the assignment.
- Submit your work in the Dropbox folder via BeachBoard (Not email or in class).
- 1. (0 points) Install a Java virtual machine on your local machine.
  - You shall run a java program on a **terminal environment** by typing like javac HelloWorld.java; java HelloWorld
- 2. (40 points) Write a FTP client program using Java and Apache Commons Net.
  - The file name should be Assn3. java. Otherwise, you will receive zero point.
  - The program shall provide the functions of the following commands
    - ls: list contents of remote directory
    - cd 'directory name': change to the remote directory
    - cd ..: change remote directory to its parent
    - delete 'file name': delete the remote file
    - get 'file name': receive the remote file
    - get 'directory name': receive the remote directory recursively
    - put 'file name': send the local file
    - put 'directory name': send the local directory recursively
    - mkdir 'directory name': make the directory on remote machine
    - rmdir 'directory name': remove the remote directory recursively
    - \* The 'file name' and 'directory name' can have spaces.
  - The command line arguments will be passed to the program in the following formats.
    - 1. args[0]: IP of a FTP server
    - 2. args[1]: id:password
    - 3. The others are requested jobs. ex) "ls" "mkdir test folder"...
    - 4. The program shall execute the jobs in the given order.
  - The program shall be executed in a terminal environment. Otherwise, you will receive zero point. (Locate commons-net-3.6.jar in the same folder of Assn3.java) javac -cp "commons-net-3.6.jar" Assn3.java java -cp ".;commons-net-3.6.jar" Assn3 12.34.56.78 cecs327:cecs327 "ls"
  - Test your client program with the FTP server on your cloud machine.
  - Submit your Assn3. java only.