Meeting 2 Exercise

Info 206

29 August 2017

1. The command line and bash scripting

Use the command line to build a file tree within your exercises repository as shown below.

```
exercises
|---meeting1
| |---myfullname.txt
|---meeting2
| |---script0.py
|---meeting3
```

- the file myfullname.txt should include one line with your full name. Be sure to write the line within the script.
- script0.py can be an empty text file with the .py suffix
- Commit and push the file structure your remote repository in the class organization.

1a. Writing a Bash script

Shell scripts are just files with lines of Shell commands. They are designed to be run at the command line terminal and it's actually a full featured language (although no one programs completely in shell scripts). Shell scripts are an automated way of programming tedious tasks, repeated sets of commands that need to be performed.

For example, you might write one to run a series of python programs every morning or when you deploy a website. You might write one to automatically create a file structure for a project (like a project template).

 Since you are on different systems choose either the Mac/UNIX instructions or the Windows instructions below

Mac/Unix

We'd like you to write a bash script that generates the above file tree and save it as make_directory.sh. To do so, you can simply save the commands you use to generate the file tree in a .sh file. Note that you cannot use the "cd" command.

You do not need to execute this bash file as we will read it manually in order to grade it! There are several ways of executing bash files. Most simply, you can execute them via a command line call like sh make_tree.sh.

In order to make this file executable. You should:

• add a "shebang" to the top of your file, which points to your bash implementation.

#!/bin/bash

in this case bash is in /bin/bash which I can see by calling: which bash or type -a bash

• make the file executatable.

```
chmod +x make_tree.sh
```

Windows

We'd like you to write a bat script that generates the above file tree and save it as make_directory.bat. To do so, you can simply save the commands you use to generate the file tree in a .bat file. Note that you cannot use the "cd" command.

You do not need to execute this bat file as we will read it manually in order to grade it! There are several ways of executing bat files. Firstly you can execute them via a command line call by simply typing make_tree.bat. You can also just double-click on the file from a Windows folder.

In order to print text to a file from a .bat script, you must type the command slightly differently than we did in the command line.

Instead of: "this is some text to output" >> output_file.txt

You will need to use: @echo this is some text to output >> output_file.txt

2. Playground

Please make at least two commits to your new github repository.