1 Hints:

Let's write our first shell script!

1. Open a file named 'script.sh' in VIM.

2. On the first line writes the *shebang* i.e. '#!/bin/bash' for the bash shell.

3. Save your work.

4. Enter down to line number 3.

5. Start writing your script!

6. Save and quit.

7. Run your script using 'bash script.sh'.

2 Instructions:

First, we will set up what you will need to submit for the lab:

1. Change directories to your ∼/csce215 directory.

2. In the '∼/csce215' directory, create a directory named similar to "username_lab03"

3. Now go into the 'username_lab03' directory.

4. Create two new **empty** files: 'script.sh' and 'username_lab03.txt'

Now you will create your first script! A script is simply a file full of commands that run in order. This helps you automate tasks! Your script should do the following when you run it using 'bash script.sh':

1. Run the 'hostname' command.

2. Run 'whoami' command.

3. Print out 'Hello, World!' to the terminal.

4. Print the current directory's global path.

5. Using **ONE** command, create three directories called 'dirA', 'dirB', and 'dirC'.

6. Show that these directories were created.

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7. Create a file in each of the three directories called 'fileA', 'fileB', and 'fileC' named for the directories they belong to.

8. Show that these files were created in their corresponding directories.

9. **CAUTION: Be careful here! Pay close attention to what you do!** Now delete the three directories and the files within them. You should use "rm -r dirA dirB dirC" command in your script to delete dirA, dirB, and dirC all at once!

10. **WARNING** If you do not remove the 'dirA', 'dirB', and 'dirC' direcories and their contents before submission you will get points taken off! You should only submit the 'script.sh' and the 'username_lab03.txt' files!

11. Run your script once you are confident with it using "bash script.sh".

12. Copy the output of the script (i.e. use your mouse to select and copy the output of the script) and paste it into your username_lab03.txt file.

Now we will tarball our submission up for submission so your lab is all packaged up nice and neat!

1. Now, go up one directory to get out of the directory named 'username_lab03' that we created at the beginning.

2. Use the 'tar' command we learned in class to tarball your directory and its two files, 'script.sh' and 'username_lab03.txt'.

3. Don't worry about understanding this next part! We will go over it next week! Here is the command for packing up your submission:

```
tar -zcvf username_lab03.tar.gz username_lab03
```

4. If all went well when you list the files and directories in your current directory you should see that the tar command outputs the something similar to the following:

```
username_lab03
username_lab03/username_lab03.txt
username_lab03/script.sh
```

5. If you see more than these three lines you probably didn't clean up your directories/files from the previous steps!

6. Now you should have a nice tarball to submit called 'username_lab03.tar.gz'. Submit this to the course Dropbox website!

3   Submission:

Submit your final tarball named 'username_lab03.tar.gz' to the course Dropbox website.