**CSC3320 System Level Programming**

**Lab Assignment 6 - Part 1 - In-Lab**

**Purpose**: Learn how to correct a shell script and write more complicated shell scripts.

**Part 1:**

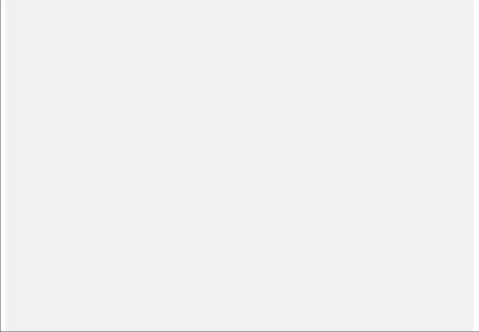
**In order to finish the tasks in this lab, you must connect to snowball server to copy my checkError.sh**

***$cp /home/yye10/public/checkError.sh checkError.sh*** In Lab 5, you may have tried the shell script **checkError.sh** in part 3. However, there are **four** errors on **four** different lines in that shell

script. Please correct all the four errors by writing down the line number, the error and the correction as below:

**Line #: Error: Correction: (Answer is at the bottom of part 1)**

**Note: please use cat -n to check the line numbers.**

**$**#/bin/bash 

/\* Check Error Script \*/

echo "Try to find out some errors!!!"

# Seach for the words which can be matched by regex [^a]\*ce # And save the output to file "Result"

echo "The regex [^a]\*ce can match the string(s):" > Result grep '^[^a]\*ce$' << END >> Result lance

ace

brace

decide

piece

-ENDHERE 

# Check the existence of file "Result"

# Send the content in "Result" to your emailbox

# $1 is replaced by your campusID

ls mail $1@student.gsu.edu < Result

# $1 is replaced by your campusID

echo "The result has been sent to ${1}@student.gsu.edu" echo "Congratulations! You have corrected all the errors!"

1

*Hints:*

• *Following is a sample of the output once all the errors are*

*corrected* $ **./checkError.sh ylong4**

Try to find out some errors!!!

checkError.sh Result

The result has been sent to ylong4@student.gsu.edu

Congratulations! You have corrected all the errors!

• *You would also receive an email sent from your snowball account once all the errors are corrected.*

• *You may need to use* ***CTRL-C t****o terminate the execution of the command, especially for the script file with errors.*

Line #: 1 Error: $#/bin/bash Correction: #/bin/bash

#remove “$”

Line #: 2 Error: /\* Check Error Script \*/ Correction: # Check Error Script

#remove “/\*” and “\*/” as it is not possible to create a comment in that format for a shell

Line #: 13 Error: -ENDHERE Correction: END

#remove “-“ and “HERE” and leave it only as “END”.

Line #: 17 Error: ls mail $1@student.gsu.edu < Result Correction: mail $1@student.gsu.edu < Result #remove “ls”

# For line 17, $1 is replaced by your campusID

To print “checkError.sh Result” , type ls $0 Result .

**Part 2:**

Write a single shell script **hello.sh** which can finish the list of tasks as below:

**1.** Greet user. E.g. **Welcome to computer science society.** 

2. Contain a comment section with your name, and email address. 3. Print the date.

**4.** Print the number of directories in **/home .**

5. Print the value of variables PATH, USER and SHELL.

6. Print your disk usage (**df**).

**7.** Print **Please, could you loan me $25.00?**

**8.** Print **if x = 2, x \* x = 4 , x / 2 = 1**

9. List all the **.sh** files with **c** at the beginning of the file name in current working directory.

10. Tell the user **Good bye** and the current hour (see manual page of **date** command refer to the webpage at http://www.thegeekstuff.com/2013/05/date-command examples )

Include the content of **hello.sh** in your answer sheet. Besides, please also upload **hello.sh** as a separated file.

Upload your answer sheet to the folder named “Lab 6\_P1” of the dropbox in the iCollege system. Name your file in the format of Lab6\_P1\_FirstnameLastname.pdf/doc

*Hints:*

• *When printing out strings using* ***echo****, to escape the special meaning of the meta character, please use back slash \ before the meta-character.*

• *To share files between remote server and the host machine, we can use* ***FileZilla - A FREE FTP****. The link to download this application is https://filezilla project.org/download.php*

2

#/bin/bash

echo "Welcome to computer science society."

#Adam Nguyen anguyen117@student.gsu.edu

echo "Date is `date`"

echo \*/ | wc

echo $PATH

echo $USER

echo $SHELL

echo "Printing disk usage"

echo "`df`"

echo "Please, could you loan me \$25.00?"

echo "if x=2, x\*x = 4, x/2 = 1"

echo "`ls \*.sh | grep c`"

echo "Good Bye"

echo "The current Hour is `date +"%H"`"