Quiz-week-5

Due: Thursday OCT-1st 11:59 PM

1. Directory 'diry' has 3 files inside listed here: \$HOME/dirx/diry

-filex -filey -filez

a. Write a command to make a directory called 'new-dir' in your \$HOME directory.

\$mkdir \$HOME/new-dir

 Write a command to copy all files from 'diry' into the new directory called 'new-dir' you just created in your home directory. Assume that you are in your home directory.

\$cp -R \$HOME/dirx/diry new-dir

c. Write a command to rename the 'diry' to dir-yy

\$mv \$HOME/dirx/diry \$HOME/dirx/diryy

- d. Give the command to create a hard link from a file called 'filex'.
 - i. \$cal > filex
 - ii. \$In filex hl_filex
- e. Give the command to create a symbolic link from filex to a new file called 'sym-filex'
 - i. \$In -s filex sym-filex
- f. Change the permission of dir-yy so that the owner of the directory has rwx, r-x for the group, and --- for others.
 - i. \$chmod 750 \$HOME/dirx/diryy
- g. Set the UID bit on the below script file with the following content.
 - i. \$ vi sayit

#!/bin/bash echo `date` echo "how are you"

ii. Change the permissions of the script file 'sayit' to 755.

\$chmod 755 sayit

iii. SEt the UID bit on the file script file called 'sayit'.

\$chmod u+s sayit

- h. Show how you set your PATH so that your path will have the following directories.
 - i. /usr/bin:/usr/sbin:\$HOME/bin\$PATH=/usr/bin:/usr/sbin:\$HOME/bin
- i. Set the PATH in your **\$HOME/.bashrc** file so that it will always be active when you first log onto the system.
 - i. \$vim \$HOME/.bashrc
 - ii. export PATH="\$HOME/bin:\$PATH"
 - iii. \$source \$HOME/.bashrc
- j. Make a directory in your home directory called 'test-data'
 - i. \$mkdir \$HOME/test-data
 - ii. Copy all files from the /etc directory that begins with the letter 'p' followed by the letter 'r' followed any other characters to your \$HOME/test-data
 \$cp /etc/pr* \$HOME/test-data
 - iii. What is the size of the data in your test-data directory. Use the 'du' command with the proper options all the sizes of the files and also the total space used by the directory.

\$du -ch \$HOME/test-data

- 2. Given a directory called 'diry' and a file called 'filex', please answer the following questions.
 - a. Write a test command to test if 'diry' is a directory
 - i. \$test -d diry
 - b. Write a test command to test if 'filex' is a file.
 - i. \$test -f filex
 - c. Write a test command to test if filex is 'executible' . If so, include a logical AND (&&) clause that echo "Yes filex is a executable"
 - i. \$test -x filex && echo "Yes filex is a executable"
 - d. Write a test command to test if filex has a size greater than 'zero'.

\$test -n filex

e. A file system inode is allocated every time you create a file.