Name: Niyomwungeri Parmenide ISHIMWE Programming Section: 4

Orientation Quiz 2: Linux

On my honor, as a Carnegie-Mellon Africa student, I have neither given nor received unauthorized assistance on this work.

Commands:

For each of these, list the command and flag(s) needed to give the functionality. Give us enough detail to know that you know the answer:

1.	Is -l	_ give a long listing of files and/or directories
2.	chmod _	change the permissions of a file
3.	cat	_ display the contents of a file
4.	mkdir	create a new directory
5.	grep	search contents of file(s) for pattern(s)
6.	wc	_ count the number of lines/words/chars in a file
7.	vi	text editor
8.	sort	sort the contents of a file
9.	mv	_ move to a different directory
10.	rm	_ remove file(s)
11.	pwd	display the current working directory
12.	sed	_ stream editor (non-interactive)
13.	echo \$va	display the contents of a shell variable

True/False:

- 14. **F**: The command **export TODAY=**`**date**` (single quotes around **date**) sets a shell variable named *TODAY* equal to the output of the **date** command.
- 15. **F**: The command **find** . **-name** '*. [ch]' lists all files under the current directory and any subdirectories, whose names end in .ch (for example, tst1.ch).
- 16. F: A Linux shell script must be compiled before it can be executed (run).
- 17. T: As a competent UNIX user, you are now empowered to make fun of all other operating systems
- 18. T: The command sed -e 's/[L1]inux/LINUX/' a_file will change all occurrences of the word Linux or linux to LINUX in a file named a_file.
- 19. **T**: The command **grep** '[**A-Z**]' /tmp/* will display the files under **/tmp** whose names contain a capital letter.
- 20. **T**: The command 1s -d /tmp/*a* will display all of the files under /tmp whose names contain the character **a**.
- 21. T: The command ls -d /tmp/* | grep a will display all of the files under /tmp whose names contain the character a.
- 22. F: The command echo #hi there causes the string hi there to be displayed on your screen.
- 23. F: The command 1s | less causes the ls command to save its output into a file named less.

Short Answer

24. What is the full UNIX command to display the online help for the chmod command?:

Answer: man chmod

- 25. What is the full UNIX command to display today's date and save the output in a file named Today?

 Answer: date > Today
- 26. What is the full UNIX command to display the contents of a file named **cat** in the **/misc** directory no matter what the current directory is?

Answer: cat /misc/cat

- 27. What is the full UNIX command to search the contents of all files in the current directory for the string "LINUX"?

 Answer: grep "LINUX" ./*
- 28. What is the full UNIX command to display the absolute path of your current working directory, and save the output in a file called **lamHere.out** in the **/tmp** directory?

Answer: pwd > /tmp/lamHere.out

29. What is the UNIX command to list all files in the current directory whose names begin with either an 1, 2, or A, followed by anything else, ending with the string ".sv"?

Answer: Is -a | grep "[12A]*.sv"

30. What is the UNIX command to create a new directory named **Dogs** in the **/animals** directory. Assume that your current working directory is **/home/unix1** (and stay there).

Answer: mkdir /animals/Dogs

31. What two things must you do to ensure that a shell script will run whenever you type its name followed by <ENTER>?

Answer: Putting its location in path and giving it the execute permission

32. What exact string will be displayed on standard-out (the screen) when these 2 commands are executed?

mystery=`echo solved.` # note that is a backquote
echo "The mystery is \$mystery"

Answer: The mystery is solved.