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| Write your answers in this documentSubmit this document on Canvas when you are done This assignment has 8 questions |

1. Which of these are features of a **shell program**? Check all that apply.

Yes a. Has a command line interface

No b. Talks directly to the hardware

No c. Lives in the kernel

Yes d. Can run scripts

No e. Has a graphical user interface

Yes f. Is accessible remotely through SSH

1. Do shell programs talk directly to the hardware? Check one

Yes a. No

No b. Yes, always

No c. Yes, sometimes

1. Which of these is an absolute path? Which is a relative path?

1. *etc/passwd* ~~absolute~~ **relative**
2. */home/student-name/myFile* **absolute** ~~relative~~
3. */etc* **absolute** ~~relative~~
4. *myDir/someFile* ~~absolute~~ **relative**
5. */* **absolute** ~~relative~~
6. What command would you use to?
7. Display the hidden files in the directory */etc*

ls -a /etc

1. Display the path of the current directory

pwd

1. Edit a file called *myFile* that is in */home/student-name/dir1*

vim /home/student-name/dir1/myFile

1. Display the first 10 lines a file called *largeFile* that is in the current directory

head largeFile

1. Page through the contents of that same *largeFile*

less largeFile or more largeFile

1. Write a command that displays all the lines containing the word *haggis* in a file named *recipes*. The *recipes* file is in the current directory.

grep “haggis” recipes

1. What do you expect the output of the final ls command to be after executing this sequence of commands?

cd

mkdir dir3

cd dir3

touch example

cp example example1

cp example example2

mv example2 example3

rm example

ls <--- what is the output of this command?

What is the output of the last command?

example1 example3

1. What do you expect the output of the last *ls* command to be after executing this sequence of commands?

cd /home/student-name

mkdir dir1

cd dir1

mkdir dir2

cd dir2

touch alfa

touch bravo

cd /home/student-name

rmdir dir1/dir2 # Line A

ls dir1 # <---- what is the output of this command?

What is the output of the last command?

dir2

1. Explain your answer to the last question:

9.1 What happened at line A?

The command tried to delete the dir2 folder, but failed

9.2 Why did that happen?

It failed because it is not empty, it has to new files in it, alfa and bravo, and rmdir only removes empty folders