Linux Review (Labs 1 – 4)

If you have done the labs, these questions are supposed to be easy. Feel free to use the Internet or try things on your Ubuntu VM.

1. Linux command line: if you want to **redirect** the output of a command **to a file**, what character do you use? ( |, \, <<, >>, >, <, &, or #)
2. Linux command line: If you want the **output of prog1 to become the input of prog2**  
   prog1 somechar prog2,  
   what do you use for somechar? ( |, \, <<, >>, >, <, &, or #)
3. How does the OS use the PATH environment variable?
4. Which of the following commands can be used to read the manual for your applications?  
   <command> help  
   help <command>  
   ? <command>  
   man <command>
5. What is the difference between an absolute file path and a relative file path?
6. What is a symbolic link? (Hint: It is like something you often have on your Windows desktop.)
7. Who has User ID (UID) 0?
8. What file stores the list of users on a Linux system?
9. What file stores the users' password hashes on a Linux system?
10. What is the difference between su and sudo? Whose password do you have to use with su and with sudo?
11. The "root" or beginning of a Windows file system is usually C:\. What is the root of a Linux file system?
12. If your username is fred, what would be a good guess for the path to your home directory?  
      
      
      
    Use this for questions 14 -20  
    The output of ls is  
     -rwxrw-r-x fred officeworkers 4096 Jun 27 09:20 myfile
13. Who has read permissions to myfile?
14. Who has write permissions to myfile?
15. Who has execute permissions to myfile?
16. Who owns myfile?
17. What group does myfile belong to?
18. What command would you enter to give the write permission for myfile to everyone?
19. What command (in octal, ie 777) would you enter to give:  
    read, write, execute to the owner, read & execute to the group, and execute to everyone?
20. The output of the *which* command shows you where the file is that a command executes.  
      
     Because of this, we know that /usr/bin must be in the \_\_\_\_\_\_\_\_ environment variable.
21. Text, letter

    Description automatically generated  
    Why did this attempt to execute mine.sh fail?
22. What command would you run to see all the aliases in your user environment?