

## Section2

1. List the user commands and redirect the output to /tmp/commands.list

`compgen -c > /tmp/commands.list`

2. Edit your profile to display the date at login and change your prompt permanently.

Open the profile file for editing:

`nano ~/.bashrc`

2. Add the following lines to the end of the file:

`echo "Login date: $(date)"`

`PS1='[\u@\h \W]\$ '`

Save the file and exit.

3. What is the command to count the words in a file or number of files in a directory?

Count words in a file:

Copy code

`wc -w filename`

Count number of files in a directory:

`ls -l | wc -l`

4. What happens if you execute:

a. `cat filename1 | cat filename2`

This will concatenate the contents of filename1 and filename2 and display them sequentially.

b. `ls | rm`

This will try to pass the output of ls to rm, which will fail because rm expects arguments as filenames to remove, not input from a pipe.

c. `ls /etc/passwd | wc -l`

5. Write a command to search for all files on the system named “.profile”.

```
find / -name ".profile"
```

```
#or
```

```
locate .profile
```

6. List the inode numbers of /, /etc, /etc/hosts.

```
ls -li /etc /etc/hosts
```

7. Create a symbolic link of /etc/passwd in /boot.

```
ln -s /etc/passwd /boot/passwd_link
```

8. Create a hard link of /etc/passwd in /boot. Could you? Why?

```
ln /etc/passwd /boot/passwd_hardlink
```

9. Echo \ it will jump to the next line, and will print >. Notice the prompt > what is that? and how can you change it from > to :.

The \ character is an escape character, indicating that the command continues on the next line.

The > prompt is the secondary prompt (PS2), which appears when a command is not yet complete.

Command to change PS2:

```
export PS2=": "
```

PS2 is the environment variable for the secondary prompt.

export PS2=": " changes the secondary prompt to :.

To make this change permanent, add the export PS2=": " command to your ~/.bashrc or ~/ profile file.