LONDON METROPOLITAN UNIVERSITY

islington college
(इस्लिङ्टन कलेज)

Module Code & Module Title

Level 5 – Network Operating Systems

Assessment Type

Logbook 8

Semester

2023/24 Spring/Autumn

Student Name: Niran Bhatta

London Met ID: 23047617

College ID: np01cp4a230046

Assignment Due Date: Wednesday, December 24, 2024

Assignment Submission Date: Tuesday, December 24, 2024

Submitted To: Bishnu Pandey

Word Count (Where Required): 722

I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.

Table of Contents

Table of figures

Objective:

The aim is to gain knowledge and engage in the practice of UNIX commands related to file manipulation as well as the establishment of directory structures, and navigation within those directories.

Aims'

a) Understanding to use relative pathnames that helps in moving between directories
b) Designing aliases and saving them for next part
c) Understanding basic UNIX commands

Task and Observation

1.1. Creating directory structure

Using mkdir for creating new directory

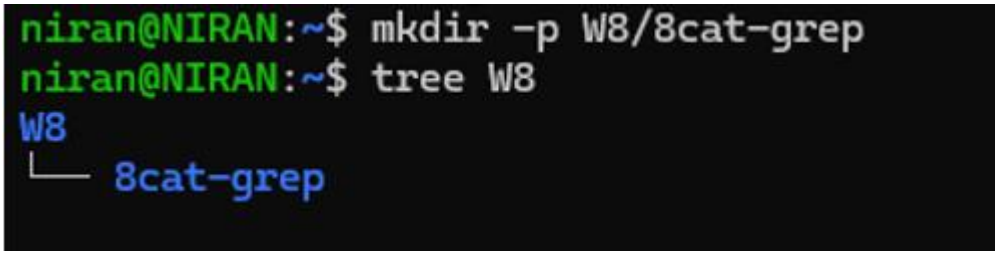

Figure 1 Directory Structure

1.2. Changing to 8cat-grep

Changing to 8cat-grep directory using relative pathname in single step. For this cd command is used.

Figure 2 Changing to 8cat-grep directory

1.3. Creating two files

Creating two files according to the question by using cat utility

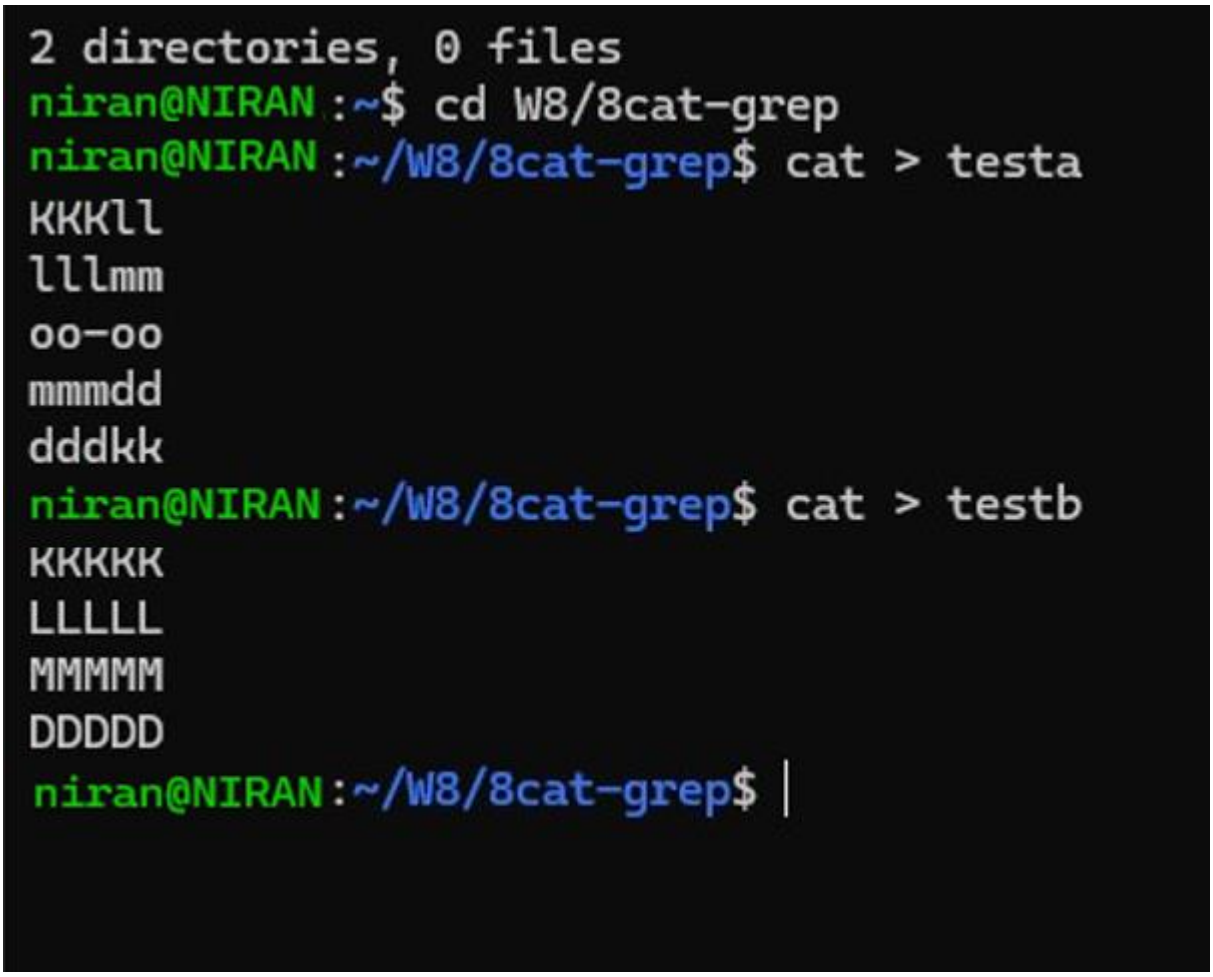

Figure 3 Creating two files using cat

1.4. Explaining the results

After running all the required commands , explaining how commands actually works

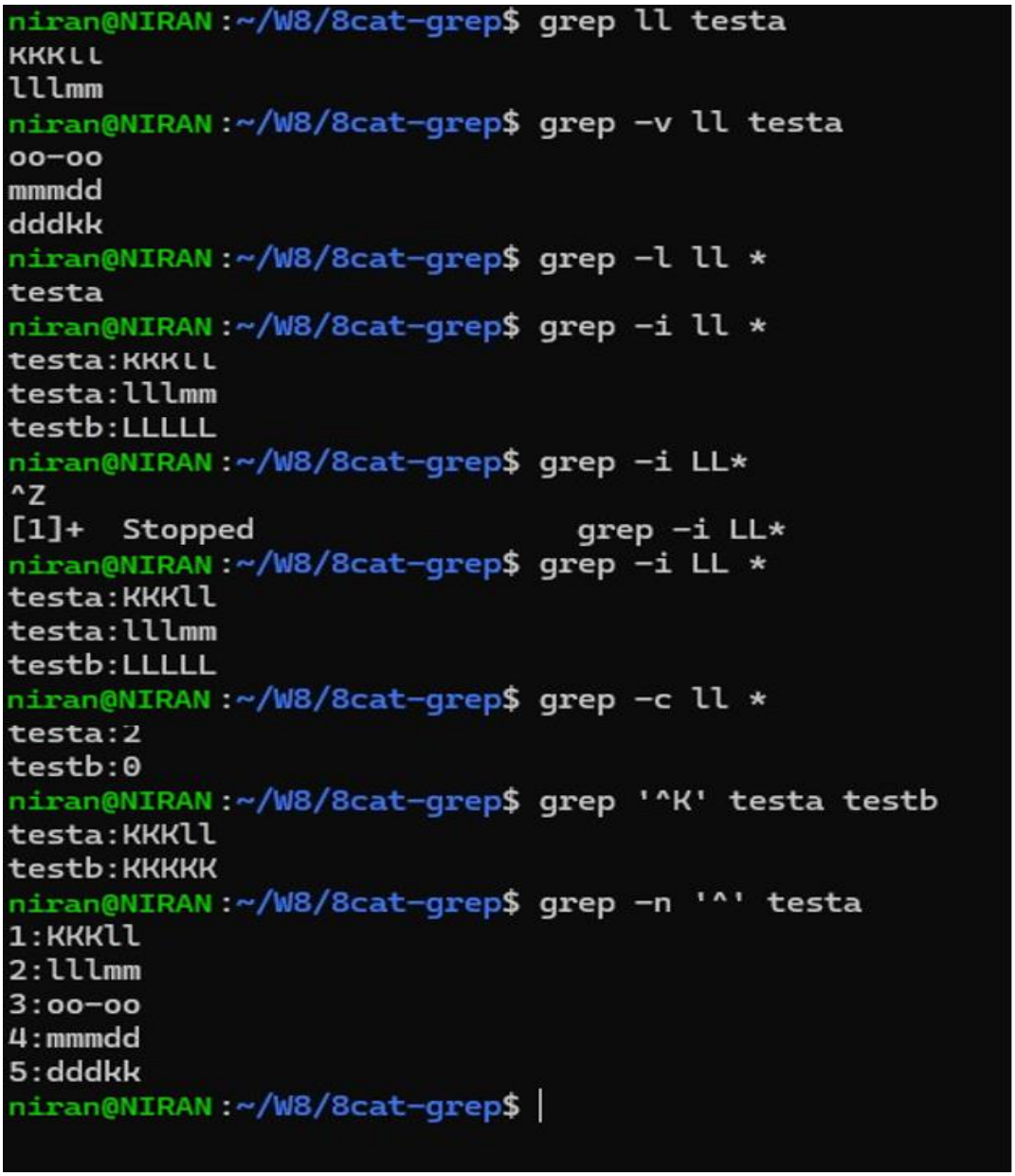

Figure 4 Entering commands from questions

1.5. Showing system storing the commands

Showing our system storing the commands and showing it gives the alias command

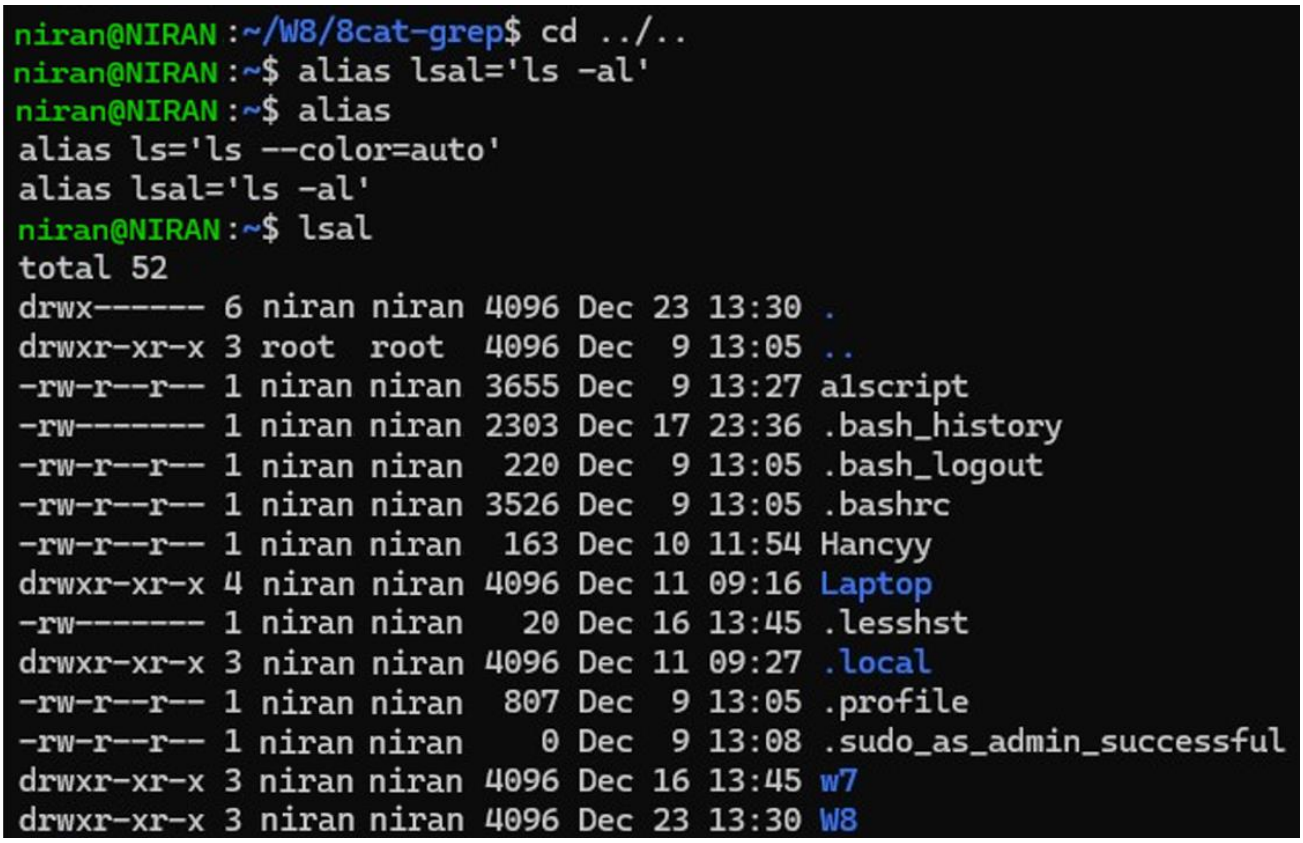

Figure 5 System storing commands and giving alias

1.6. Removing alias

Removing the alias and showing that the system don’t store it

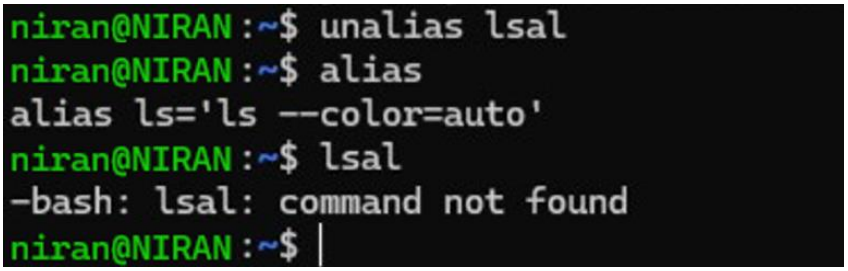

Figure 6 Removing alias

1.7. Defining alias again

Defining alias again and saving it for next time

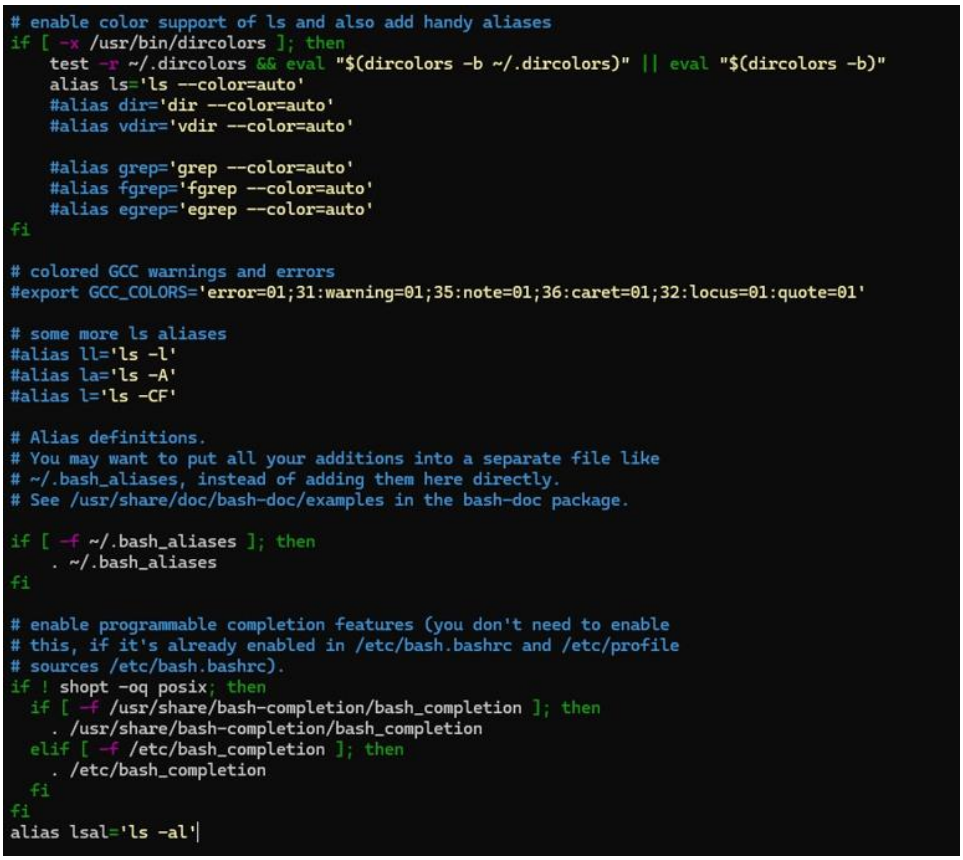

Figure 7 Defining alias again

1.8. Defining nwho alias

Defining the nhwo alias for system file sin UNIX devices.

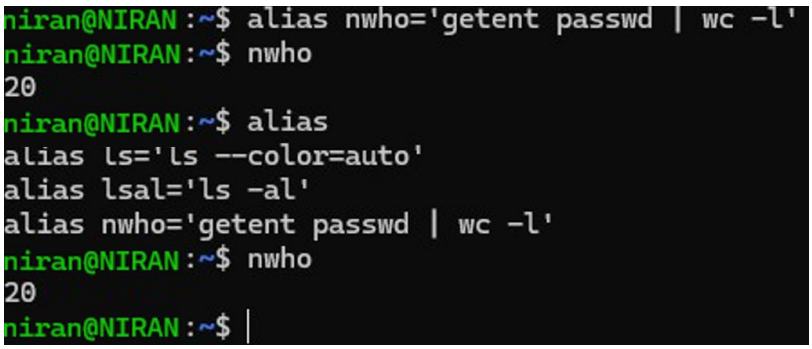

Figure 8 nwho alias

1.9. Using History Command

Listing all the recent commands by using history command

```
niran@NIRAN:~$ history
    1  mkdir -p W8/8cat-grep
    2  tree W8
    3  sudo snap/apt
    4  sudo snap install tree
    5  mkdir -p W8/8cat-grep
    6  tree W8
    7  mkdir -p W8/8cat-grep
    8  tree w8
    9  mkdir -p W8/8cat-grep
   10  tree W8
   11  mkdir -p W8/8cat-grep
   12  tree W8
   13  cd W8/8cat-grep
   14  cat >testb
   15  mkdir -p W8/8cat-grep
   16  tree W8
   17  cd W8/8cat-grep
   18  cat > testa
   19  mkdir -p W8/8cat-grep
   20  tree W8
```

1.10. Re executing using redo r and negative integer

Re executing one command using redo r command and three commands using negative integer! -3

```
niran@NIRAN:~$ fc -r
history
    1  mkdir -p W8/8cat-grep
    2  tree W8
    3  sudo snap/apt
    4  sudo snap install tree
    5  mkdir -p W8/8cat-grep
```

Figure 9 Using redo r

```
niran@NIRAN:~$ !-3
nwho
```

Figure 10 Using command !-3

1.11. Using command fc -e- l

```
niran@NIRAN:~$ fc -e- l
ls -la
total 64
drwx------ 6 niran niran  4096 Dec 23 14:11 .
drwxr-xr-x 3 root  root   4096 Dec  9 13:05 ..
-rw-r--r-- 1 niran niran 16384 Dec 23 21:05 a1script
-rw------- 1 niran niran  2308 Dec 23 20:46 .bash_history
-rw-r--r-- 1 niran niran   220 Dec  9 13:05 .bash_logout
-rw-r--r-- 1 niran niran  3547 Dec 23 14:11 .bashrc
-rw-r--r-- 1 niran niran   163 Dec 10 11:54 Hancyy
drwxr-xr-x 4 niran niran  4096 Dec 11 09:16 Laptop
-rw------- 1 niran niran    20 Dec 16 13:45 .lesshst
drwxr-xr-x 3 niran niran  4096 Dec 11 09:27 .local
-rw-r--r-- 1 niran niran   807 Dec  9 13:05 .profile
-rw-r--r-- 1 niran niran     0 Dec  9 13:08 .sudo_as_admin_successful
drwxr-xr-x 3 niran niran  4096 Dec 16 13:45 w7
drwxr-xr-x 3 niran niran  4096 Dec 23 13:30 W8
niran@NIRAN:~$
```

Figure 11 Using command fc -e- l

Conclusion:

This lab exercise really helped us understand some UNIX commands in manipulating files, directories, and aliases. In each step, students were involved in navigating, entering commands, and personalizing the environment with aliases. With those commands many times, we have experienced how efficient and flexible UNIX tools are to handle system administration. This lays a strong background for further studies into operating systems like UNIX or LINUX.