

Assignment 7

a) Prepare file for printing,

This involves formatting a file to make it suitable for printing, such as adjusting page breaks and layout.

Syntax - `pr [options] filename`

```
osborn@DESKTOP-GOPGL05:~/test$ pr fruits.txt

2024-04-03 02:49                fruits.txt                Page 1

Apple
Banana
Orange
Strawberry
Mango
Pineapple
Watermelon
Grapes
Kiwi
Pear
```

b) Custom display of file using head and tail,

Definition: Display specific portions (head or tail) of a file.

Syntax (head): `head [options] filename`

Syntax (tail): `tail [options] filename`

```
osborn@DESKTOP-GOPGL05:~/test$ head fruits.txt
Apple
Banana
Orange
Strawberry
Mango
Pineapple
Watermelon
Grapes
Kiwi
Pear
osborn@DESKTOP-GOPGL05:~/test$ tail fruits.txt
Apple
Banana
Orange
Strawberry
Mango
Pineapple
Watermelon
Grapes
Kiwi
Pear
osborn@DESKTOP-GOPGL05:~/test$ █
```

c) Vertical division of file,

Definition: Divide file content vertically into sections.

Syntax - split [options] filename prefix

```
osborn@DESKTOP-GOPGL05:~$ ls
Old calculator file.txt foldercopy india msit sh test touch
osborn@DESKTOP-GOPGL05:~$ split -l 100 file.txt splitfile
osborn@DESKTOP-GOPGL05:~$ ls
Old calculator file.txt foldercopy india msit sh splitfileaa test touch
osborn@DESKTOP-GOPGL05:~$ cat splitfileaa
Hello Good Morning
osborn@DESKTOP-GOPGL05:~$
```

d) Paste files,

Definition: Merge lines from multiple files side by side.

Syntax - paste [options] file1 file2 ...

```
osborn@DESKTOP-GOPGL05:~/test$ ls
error.txt  file1.txt  file2.txt  fruits.txt  output.txt
osborn@DESKTOP-GOPGL05:~/test$ cat file1.txt file2.txt
Hello World
Good Morning...!!o

osborn@DESKTOP-GOPGL05:~/test$ paste file1.txt file2.txt > merged_file.txt
osborn@DESKTOP-GOPGL05:~/test$ cat merged_file.txt
Hello World      Good Morning...!!o

osborn@DESKTOP-GOPGL05:~/test$
```

e) Sort file,

Definition: Sort lines of a file.

Syntax - sort [options] filename

```
osborn@DESKTOP-GOPGL05:~/test$ cat fruits.txt
Apple
Banana
Orange
Mango
Pineapple
Strawberry
Grape
Watermelon
Kiwi
Peach
osborn@DESKTOP-GOPGL05:~/test$ sort fruits.txt
Apple
Banana
Grape
Kiwi
Mango
Orange
Peach
Pineapple
Strawberry
Watermelon
osborn@DESKTOP-GOPGL05:~/test$ █
```

f) Finding repetition and non-repetition,
Definition: Identify duplicate and unique lines in a file.

Syntax (repetition): `sort filename | uniq -d`

Syntax (non-repetition): `sort filename | uniq -u`

```
osborn@DESKTOP-GOPGL05:~/test$ sort fruits.txt | uniq -d
osborn@DESKTOP-GOPGL05:~/test$ sort fruits.txt | uniq -u
Apple
Banana
Grape
Kiwi
Mango
Orange
Peach
Pineapple
Strawberry
Watermelon
osborn@DESKTOP-GOPGL05:~/test$
```

g) Manipulating characters using, Searching pattern

Definition: Search for patterns and manipulate text.

Syntax (grep): `grep [options] pattern filename`

Syntax (sed): `sed [options] 's/pattern/replacement/g' filename`

```
osborn@DESKTOP-GOPGL05:~/test$ sed 's/old/new/g' fruits.txt
Apple
Banana
Orange
Mango
Pineapple
Strawberry
Grape
Watermelon
Kiwi
Peach
osborn@DESKTOP-GOPGL05:~/test$ grep 'apple' fruits.txt
Pineapple
osborn@DESKTOP-GOPGL05:~/test$
```