**Experiment No.: 3**

**Aim: Familarization of linux commands.**

**CO2: Perform System Administration Tasks.**

**Procedure**

1. Pwd-Print working directory

$ pwd

**Output Screenshot**

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1. ls- to display a list of contents of a directory.

$ ls

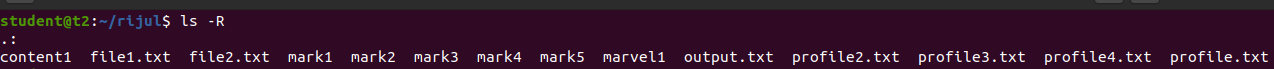
**Output Screenshot**

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2.1 ls -R -show contents in the subdirectory.

$ls -R

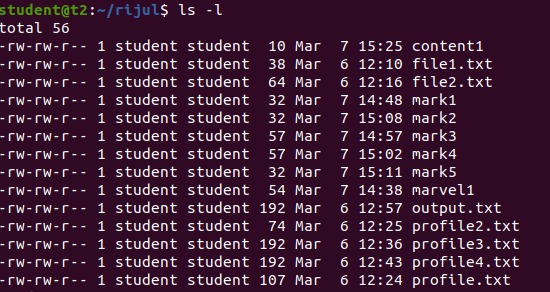
**Output Screenshot**

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2.2 ls -l - to longlist a list.

$ls -l

**Output Screenshot**

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2.3 ls-a – to list all hidden files.

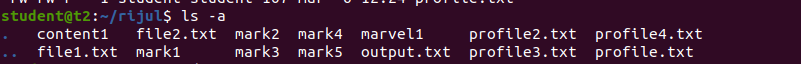
$ls -a

**Output Screenshot**

2.4 ls -al – to list the files and directories with detailed information.

$ls -al

**Output Screenshot**



2.5 ls -t – to list the files as in last modified order.

$ls -t

**Output Screenshot**

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2.6 ls -r - to remove the natural sorting order.

$ls -r

**Output Screenshot**

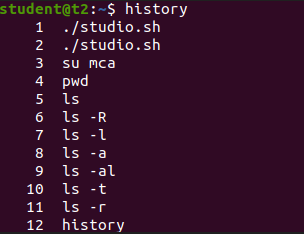
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3. history- to review the commands that has been previously executed for certain period of

Time.

$history

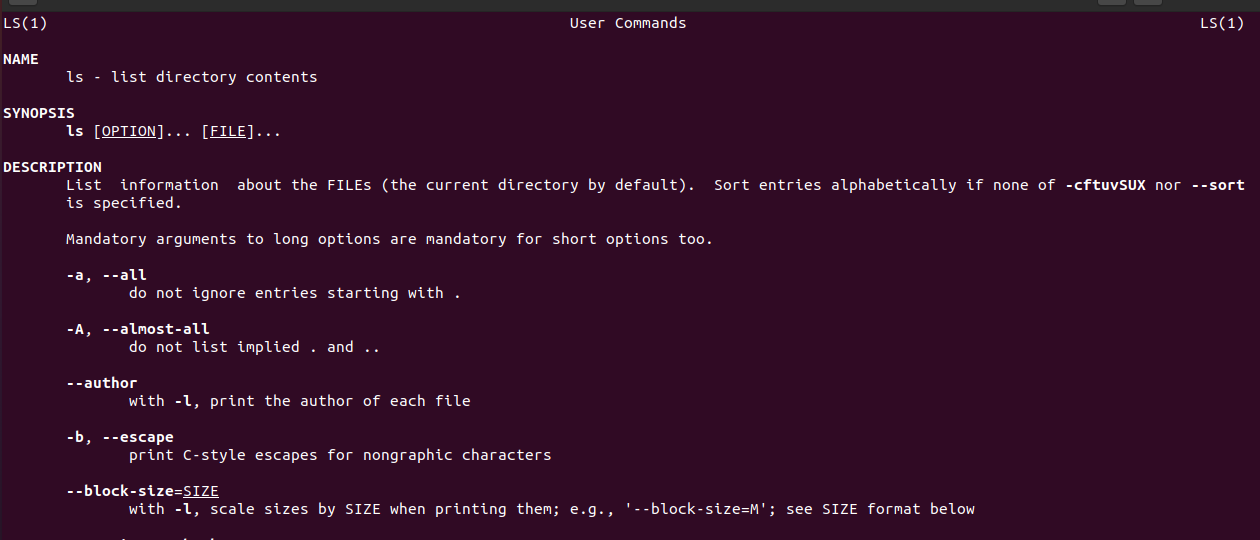
**Output Screenshot**

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1. man – list options of various commands right from the shell.

$man ls

**Output Screenshot**

****

5. mkdir – make a new directory

$mkdir rijul2

6. cd – change directory

$cd rijul2

7.cd.. – move to previous directory.

$cd ..

8.rmdir- remove an existing directory

$rmdir

9.touch- create a new file

$touch file.txt

10. cat > filename: create a new file and append the content.

$cat > fruit.txt

Apple

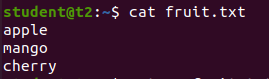
Mango

Cherry

11. cat filename – to display the file content

$cat fruit.txt

**Output Screenshot**



12. cat >> filename- add more content to the same existing file.

$cat >> fruit.txt

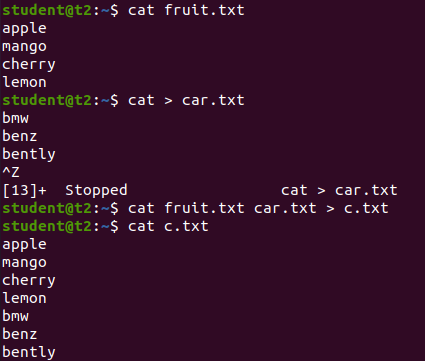
Lemon

13.cat filename filename > filename – combine the contents of the two file and store it in another file.

$cat fruit.txt car.txt > c.txt

$cat c.txt

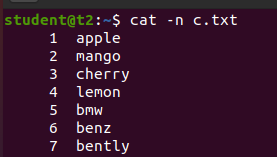
**Output Screenshot**



14. cat -n filename – display the content with line numbers

$cat -n c.txt

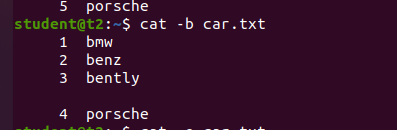
**Output Screenshot**



14.1 cat -b filename – remove empty line numbers

$cat -b car.txt

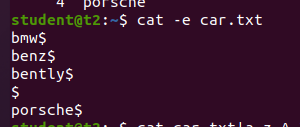
**Output Screenshot**



14. cat -e filename – append $ at end of each line.

$cat -e car.txt

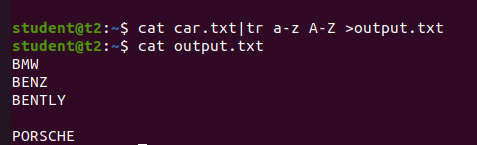
**Output Screenshot**



15. cat filename| tr a-z A-Z > filename – change context of file to uppercase.

$cat car.txt| tr a-z A-Z > output.txt

**Output Screenshot**



**Result**

The program was executed and the result was successfully obtained. Thus CO2 was obtained.

**Experiment No.: 4**

**Aim: Familarization of linux commands.**

**CO2: Perform System Administration Tasks.**

**Procedure**

1. cut – for cutting out the sections from each lines of files and writing the result to standard output.

1.1 cut -b filename – cut the letters of words from each lines

$cat >marvel1

Ironman

Captain America

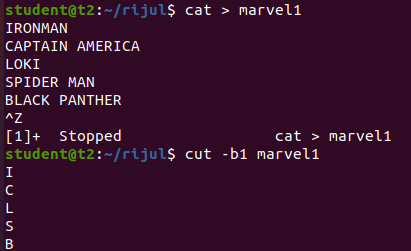
Loki

Spiderman

Blackpanther

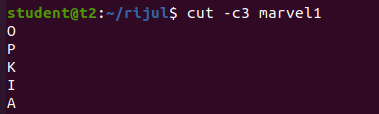
$cat -b1 marvel1

**Output Screenshot**



1.2 $cut -c3 marvel1 – cutting the third letter of words from each line.

**Output Screenshot**

****

1.3 cut -d - -f1 filename – cutting the highfen(delimiter) from the file.

$cat > mark1

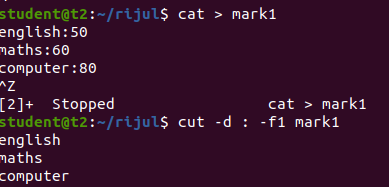
English-50

Maths-60

Computer-80

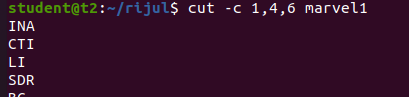
$cut -d - -f1 mark1

**Output Screenshot**



1.4 $cut -c 1,4,6 marvel1 – cutting 1st,4th and 6th letters.

**Output Screenshot**

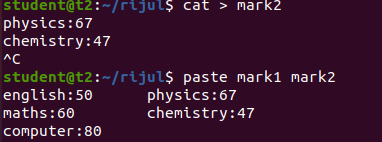


2. paste- join files horizontally[each file consisting of different lines]

2.1 paste filename1 filename2

$paste mark1 mark2

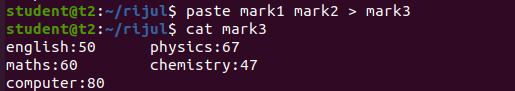
**Output Screenshot**



2.2 $paste mark1 mark2 > mark3

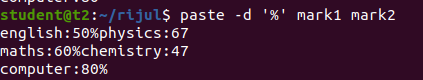
$cat mark3

**Output Screenshot**



2.3 $paste -d ‘%’ mark1 mark2 – appending % at list.

**Output Screenshot**



2.4 $paste -d ‘%’ mark1 mark2 > mark4

$cat mark4

English-50%physics-67

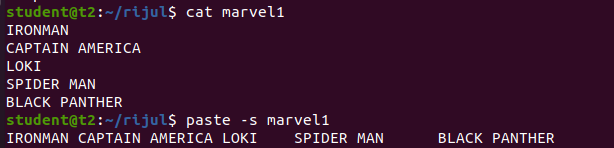
Maths-60%chemistry-47

Computer-80%

2.5 paste -s filename – display the content in the same line.

$paste -s marvel1

**Output Screenshot**



3. cp file1 file2- to copy the content to an existing file.

$cat mark1

English-50

Maths-60

Computer-80

$cat mark2

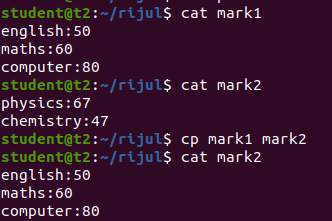
Phy-67

Chem-47

$cp mark1 mark2

$cat mark2

**Output Screenshot**

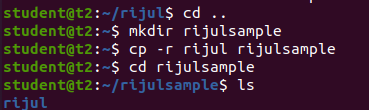


3.1 $cp -r rijul rijulsample – copy a directory along with subdirectory to another directory.

$cd rijulsample

Ls

**Output Screenshot**

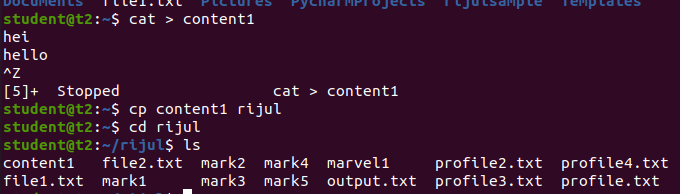


3.2 $cp content rijul – copy an content from one directory to another.

$cd rijul

$ls

**Output Screenshot**



**Result**

The program was executed and the result was successfully obtained. Thus CO2 was obtained.