Experiment No: 1

AIM: Linux commands: Working with Directories:

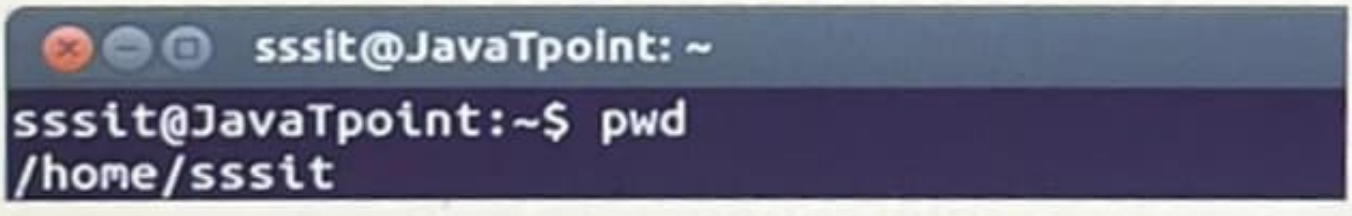
a. pwd, cd, absolute and relative paths, ls, mkdir, rmdir,touch, rm, cp, mv, echo, head, tail, cat, tac

a.

1. pwd(Present working directory)

InLinux pwd command displays the current working directory. It will give the whole path starting from the root to the current working directory.

Syntax:**pwd**

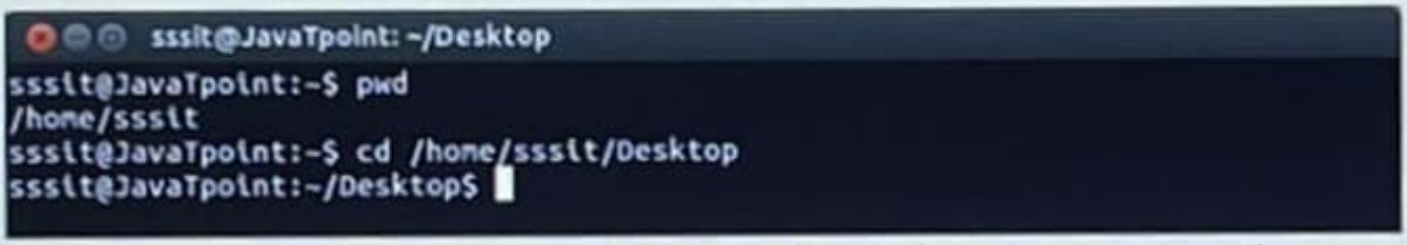


2. cd

The "cd" command stands for 'change directory' and this command is used to change the current directory i.e; the directory in which the user is currently working.

a) Change from current directory to a new directory

Syntax:
cd <dirname>
Example:
cd Desktop



b) Change directory using absolute path

An absolute path is defined as specifying the location of a file or directory from the root directory (/). It mention whole path starting from root

Syntax:
cd <dirname>

Example:
cd /home/sssit/Desktop

The 'tail' command displays the last lines of a file. Its main purpose is to read the error message.

By default, it will also display the last ten lines of a file.

Syntax:

a)tail **<file** name>

Example:

tail jtp.txt

b)Linux tail -n

The 'tail -n' option displays the specified number of lines.

Syntax:

tail -n**<number>** **<file** name**>** |

Example:

tail –n 5 jtp.txt

8. cat

The 'cat' command can be used to display the content of a file.

Syntax:

a)cat **<fileName>**

Example:

cat jtp.txt

CD ..

g) Change from home directory and easily access to a long path

CD ~/<dirname>

Example

CD ~/Desktop

3. ls

The **ls**is the list command in Linux. It will show the full list or content of your directory. Just type ls and press enter key. The whole content will be shown.

Syntax:

a)ls

b)ls –a

List the whole files in the directory including hidden files.

c)ls –l

Shows List in long list format.

d)ls –r

It is used to print the list in reverse order.

e)ls –R

It will display the content of the sub-directories also.

4. mkdir:

The mkdir stands for 'make directory'. mkdir command is used to create a new directory.

Syntax:

mkdir <dirname>

Example:

mkdir created

b)To copy content of one file to another.

Syntax:

cat old_filename>new_filename

c)To concatenate content of multiple files into one.

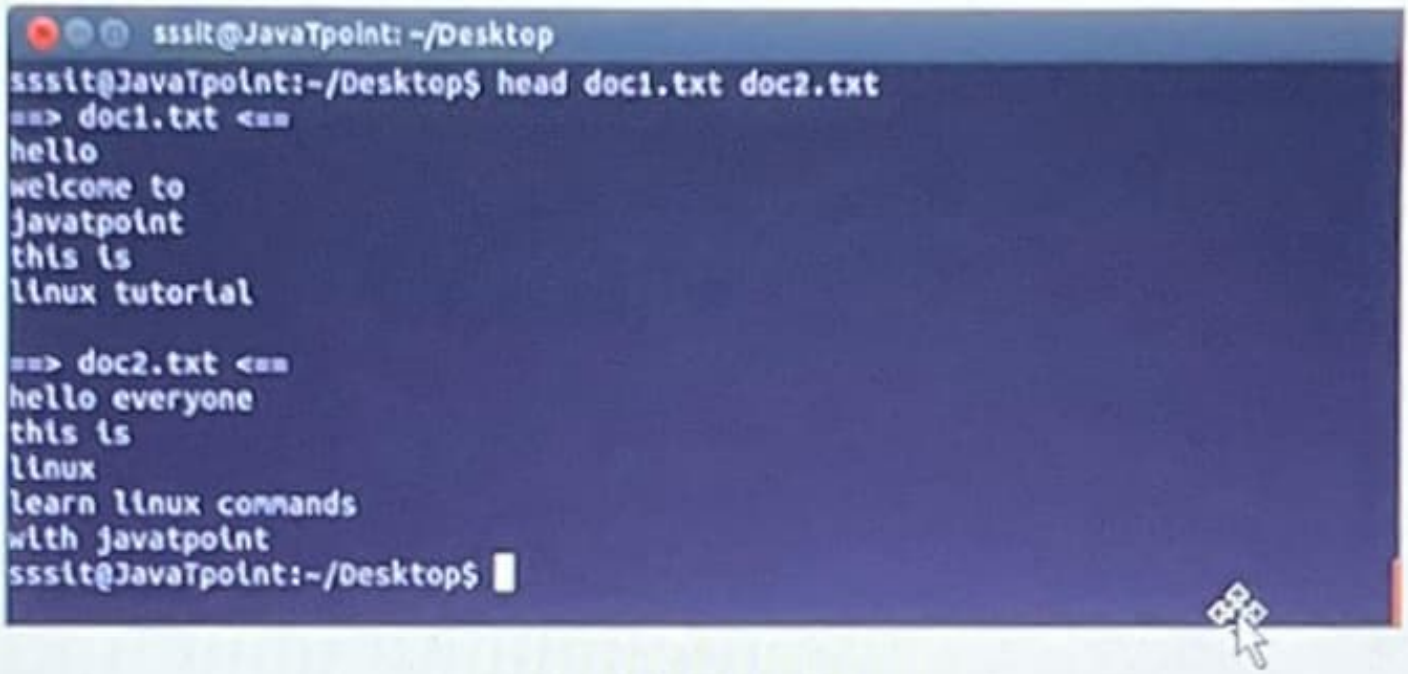
Syntax:

cat f1 f2 f3 >new_filename

9.echo

TO write messages into the file.

head doc1.txt doc2.txt



c)Linux head -n

The 'head -n' option displays specified number of lines.

Syntax:

head -n **<file** name>

Example:

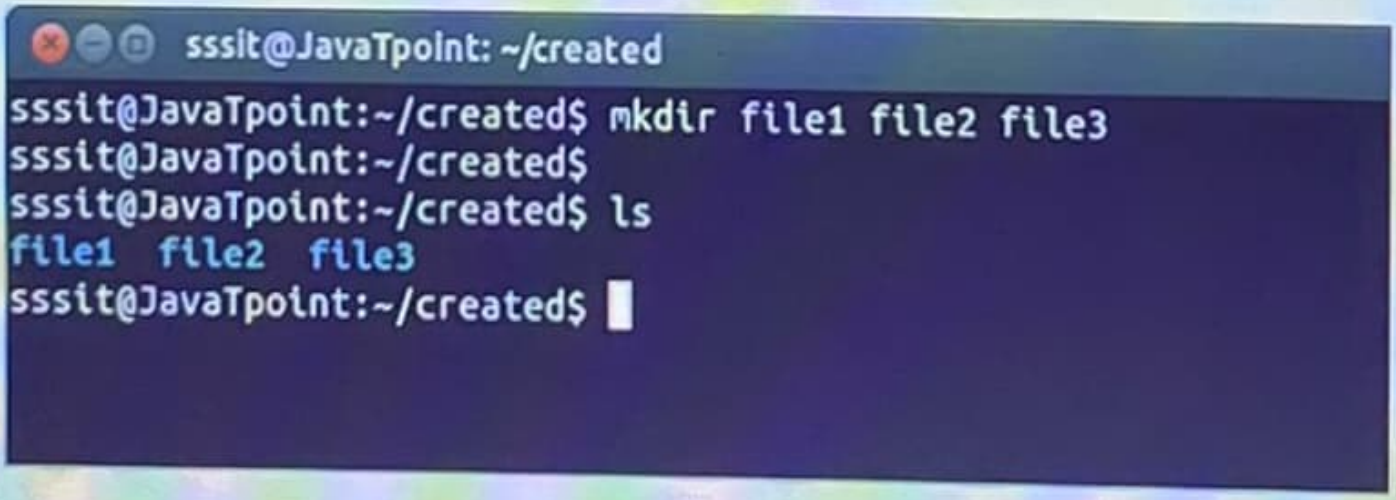
head –n 15 jtp.txt

7. tail

Use ls command to see the new directory.

To make multiple directories

mkdir <dirname1> <dirname2> <dirname3> ...



5. **rmdir:**

2. touch

touch command is used to create empty files. You can update the modification and access time of each file with the help of touch command.

Syntax:

touch **<filename>**

Example:

touch myfile1

touch myfile2

mv command is used to move existing file or directory from one location to another. It is also used to rename a file or directory.

mv<old filename><new filename>

```
nirali@DESKTOP-EGG19F4:~/linuxprac/lin1$ pwd
/home/nirali/linuxprac/lin1
nirali@DESKTOP-EGG19F4:~/linuxprac/lin1$ mv file2.txt /home/nirali/lin
c/lin2
nirali@DESKTOP-EGG19F4:~/linuxprac/lin1$ cd ..
nirali@DESKTOP-EGG19F4:~/linuxprac$ ls
lin1  lin2  lin3  lin4
nirali@DESKTOP-EGG19F4:~/linuxprac$ cd lin2
nirali@DESKTOP-EGG19F4:~/linuxprac/lin2$ ls
file2.txt
```

6. Head

The 'head' command displays the starting content of a file. By default, it displays starting 10 lines of any file.

Syntax:

Echo "message" >f1.txt

10.tac

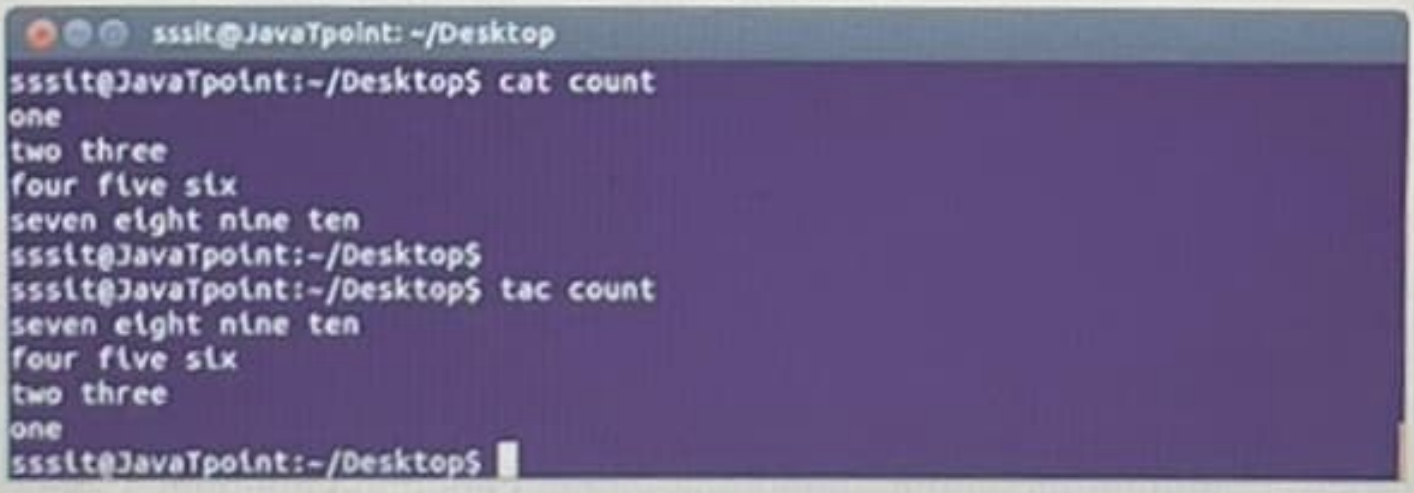
The 'tac' command is the reverse of the 'cat' command. It is also known as 'cat' backwards. It will display the file content in reverse order.

Syntax:

a)tac **<file** name**>**

Example:

tac count



```
sssit@JavaTpoint: ~
sssit@JavaTpoint:~$ ls
cretecler  Disk1      Downloads          Music    myfile2  Pictures  Templates
Desktop    Documents  examples.desktop   myfile1  office   Public    Videos
sssit@JavaTpoint:~$
sssit@JavaTpoint:~$ rm myfile1
sssit@JavaTpoint:~$
sssit@JavaTpoint:~$ ls
cretecler  Disk1      Downloads          Music    office   Public    Videos
Desktop    Documents  examples.desktop   myfile2  Pictures  Templates
sssit@JavaTpoint:~$
```

4. cp -r

'cp' means copy. 'cp' command is used to copy a file or a directory.

To copy a file into the same directory syntax will be,

a)**cp -r <existing file name> <new file name>**

```
nirali@DESKTOP-EGG19F4:~/linuxprac$ ls
lin1  lin2  lin3
nirali@DESKTOP-EGG19F4:~/linuxprac$ cp -r lin1 lin4
nirali@DESKTOP-EGG19F4:~/linuxprac$ ls
lin1  lin2  lin3  lin4
nirali@DESKTOP-EGG19F4:~/linuxprac$ cd lin1
nirali@DESKTOP-EGG19F4:~/linuxprac/lin1$ cp -r file1.txt file2.txt
nirali@DESKTOP-EGG19F4:~/linuxprac/lin1$ ls
file1.txt  file2.txt
```

5. mv

Syntax:

a)head **<file** name>

Example:

head jtp.txt

Head command for multiple files

If we'll write two file names then it will display first ten lines (in this case file has five lines only) of each file separated by a heading.

Syntax:

b)head **<file** name> **<file** name>

Example:

If you would like to create two files simultaneously, then your command will be:

Syntax:

touch<filename><filename >...

Example:

touch myfile1 myfile2

3. rm

The 'rm' means remove. This command is used to remove a file. The command line doesn't have a recycle bin or trash unlike other GUI's to recover the files. Hence, be very much careful while using this command. Once you have deleted a file, it is removed permanently.

Syntax:

a)rm -r<filename>

Example:

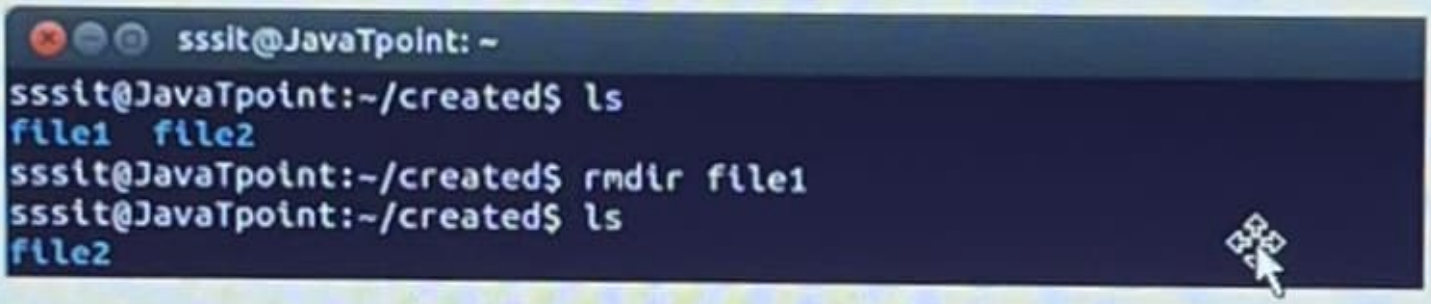
rm myfile1

This command is used to remove an empty directory.

Syntax:

rmdir <dirname>

Example: rmdir created

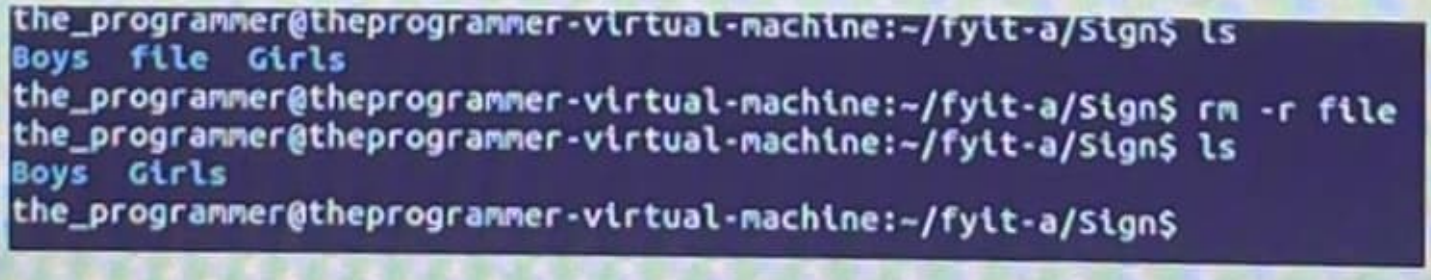


This command is used to remove a directory along with its subdirectories.

Syntax:

rm -r <dirname>

Example: rm -r file



c)Change directory using relative path

Relative path is defined as the path related to the present working directly (pwd). It starts at your current directory and **never starts with a /.**

Syntax:

cd <dirname>

Example:

cd Desktop

d)Change to root directory

CD /

e)Change to current directory

CD .

f)Change to parent directory