

Lab-Sheet-5

1. Display the path of your current directory.

```
(gautamrajesh007@kali)-[~]  
$ pwd  
/home/gautamrajesh007
```

2. Make a new directory named main.

```
(gautamrajesh007@kali)-[~/Desktop]  
$ mkdir main
```

3. Now go to the directory main.

```
(gautamrajesh007@kali)-[~/Desktop]  
$ cd main
```

4. Stay in main directory and make the directories in the following

hierarchy using a single command.

Dir1 → Dir 2 → Dir3

```
(gautamrajesh007@kali)-[~/Desktop/main]
$ mkdir -p Dir1/Dir2/Dir3
```

5. Print the path of the current directory.

```
(gautamrajesh007@kali)-[~/Desktop/main]
$ pwd
/home/gautamrajesh007/Desktop/main
```

6. Go to Dir3 using a single command.

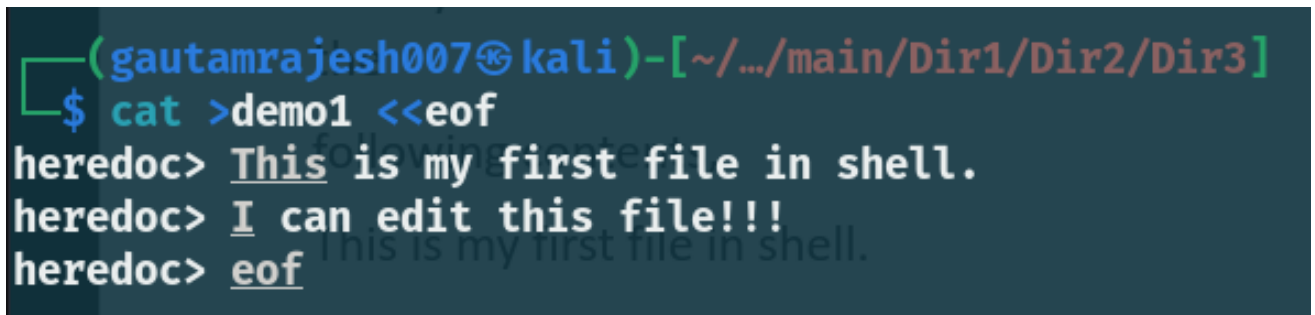
```
(gautamrajesh007@kali)-[~/Desktop/main]
$ cd Dir1/Dir2/Dir3
```

7. Stay in the Dir3 and create a new file demo1, type and save the

following contents,

This is my first file in shell.

I can edit this file!!!

A terminal window with a dark blue background. The prompt is (gautamrajesh007@kali)-[~/.../main/Dir1/Dir2/Dir3]. The user enters \$ cat >demo1 <<eof. Then, they enter heredoc> This is my first file in shell. on the next line, heredoc> I can edit this file!!! on the next line, and finally heredoc> eof on the next line. The text 'This is my first file in shell.' and 'I can edit this file!!!' are shown in a lighter blue color, indicating they are being read from the heredoc input.

```
(gautamrajesh007@kali)-[~/.../main/Dir1/Dir2/Dir3]  
$ cat >demo1 <<eof  
heredoc> This is my first file in shell.  
heredoc> I can edit this file!!!  
heredoc> eof
```

8. Create another new file demo2, type and save the following contents,

Hi !!! This is the second file.

I am doing shell commands.

I can edit this file!!!

```
(gautamrajesh007@kali)-[~/.../main/Dir1/Dir2/Dir3]
$ cat demo2
Hi !!! . This is the second file.
I am doing shell commands.
I can edit this file!!!
```

9. Display the contents of file demo1 in terminal.

```
(gautamrajesh007@kali)-[~/.../main/Dir1/Dir2/Dir3]
$ cat demo1
This is my first file in shell.
I can edit this file!!!
```

10. List the files and folders present in Dir3.

```
(gautamrajesh007@kali)-[~/.../main/Dir1/Dir2/Dir3]
$ ls
demo1  demo2
```

11. Go to Dir 2.

```
(gautamrajesh007@kali)-[~/.../main/Dir1/Dir2/Dir3]
$ cd ..
```

12. Go to your home directory.

```
(gautamrajesh007@kali)-[~/Desktop/main/Dir1/Dir2]
$ cd
```

13. From the home directory, list the contents of Dir3.

```
(gautamrajesh007@kali)-[~]
$ ls Desktop/main/Dir1/Dir2/Dir3
demo1  demo2
```

14. List all the files (including hidden files) in your home directory.

```
(gautamrajesh007@kali)-[~]
$ ls -la
total 108
drwxr-xr-x 1 gautamrajesh007 gautamrajesh007 4096 Nov 12 12:13 .
drwxr-xr-x 1 gautamrajesh007 gautamrajesh007 4096 Nov 12 12:13 ..
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  220 Nov 12 12:13 .bash_logout
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  344 Nov 12 12:13 .bashrc
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  527 Nov 12 12:13 .bashrc.original
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .cache
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .config
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .desktop
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .face
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .face.icon
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .idlerc
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .java
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .lessht
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .local
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .mozilla
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .profile
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .pki
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .snap
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .sudo_as_admin_successful
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .Templates
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .Videos
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .zsh_history
-rw-r--r-- 1 gautamrajesh007 gautamrajesh007  286 Nov 12 12:13 .zshrc
```

15. Stay in home directory and create a new file test1, type and save the contents into your file.

I am working with Linux shell.

Good bye

```
(gautamrajesh007@kali)-[~]  
$ cat >test1 <<eof  
heredoc> I am working with Linux shell.  
heredoc> Good bye.  
heredoc> eof
```

16. Copy the contents of test1 to test2 in the same directory.

```
(gautamrajesh007@kali)-[~]  
$ cp test1 test2  
  
(gautamrajesh007@kali)-[~]  
$ ls  
Desktop Downloads Pictures snap test1 Videos  
Documents Music Public Templates test2
```

17. Rename test2 as test3.

```
(gautamrajesh007@kali)-[~]  
$ mv test2 test3  
  
(gautamrajesh007@kali)-[~]  
$ ls  
Desktop Downloads Pictures snap test1 Videos  
Documents Music Public Templates test3
```

18. Determine the file type of test3.

```
(gautamrajesh007@kali)-[~]  
$ file test3.txt  
test3.txt: ASCII text
```

19. Stay in the home folder and move the file test3 to the directory Dir3

using a single command.

```
(gautamrajesh007@kali)-[~]  
$ mv test3.txt Desktop/main/Dir1/Dir2/Dir3  
(gautamrajesh007@kali)-[~]  
$ cd Desktop/main/Dir1/Dir2/Dir3  
(gautamrajesh007@kali)-[~/.../main/Dir1/Dir2/Dir3]  
$ ls  
demo1 demo2 test3.txt
```

20. Stay in the home folder and create a file count, with the following content using a single command.

```
Basic Data Explorer | Your First Machine
(gautamrajesh007@kali)-[~]
$ cat >count <<eof
heredoc> >...
Nine
Ten
Eleven
Twelve
Thirteen
Fourteen
Fifteen
Sixteen
Seventeen
Eighteen
Nineteen
Twenty
heredoc> eof
```

One

Two


```
(gautamrajesh007@kali)-[~]
$ cat count
One
Two
Three
Four
Five
Six
Seven
Eight
Nine
Ten
Eleven
Twelve
Thirteen
Fourteen
Fifteen
Sixteen
Seventeen
Eighteen
Nineteen
Twenty
```

Three

Four

Five

Six

Seven

Eight

Nine

Ten

Eleven

Twelve

Thirteen

Fourteen

Fifteen

Sixteen

Seventeen

Eighteen

Nineteen

Twenty

21. Copy the contents of the file count to another file count2 using cat

Command.

```
(gautamrajesh007@kali)-[~]  
$ cat count > count2
```

22. Create another file count3 with the following content

Twenty One

Twenty Two

Twenty Three

Twenty FourTwenty Five

```
(gautamrajesh007@kali)-[~]  
$ cat >count3 <<eof  
heredoc> Twenty One  
heredoc> Twenty Two  
heredoc> Twenty Three  
heredoc> Twenty FourTwenty Five  
heredoc> eof
```

23. Concatenate the contents of files count2 and count3 and write it into the file countfinal.

```
(gautamrajesh007@kali)-[~]  
$ cat count2 count3 > countfinal
```

24. Stay in home directory and remove the files demo1 and demo2 present in directory Dir3.

```
(gautamrajesh007@kali)-[~]  
$ rm Desktop/main/Dir1/Dir2/Dir3/demo1 Desktop/main/Dir1/Dir2/Dir3/demo2
```

25. Go to Dir2 and try to remove the subdirectory Dir3.

```
(gautamrajesh007@kali)-[~/Desktop/main/Dir1/Dir2]  
$ ls
```

28. Come back to your home folder and remove Dir2.

```
(gautamrajesh007@kali)-[~]  
$ rmdir Desktop/main/Dir1/Dir2
```

29. Display first 10 lines of the file countfinal in terminal.

```
(gautamrajesh007@kali)-[~]  
$ head countfinal  
One  
Two  
Three  
Four  
Five  
Six  
Seven  
Eight  
Nine  
Ten
```

30. Display last 10 lines of the file countfinal in terminal.

```
(gautamrajesh007@kali)-[~]  
$ tail countfinal  
Sixteen  
Seventeen  
Eighteen  
Nineteen  
Twenty  
Twenty One  
Twenty Two  
Twenty Three  
Twenty Four  
Twenty Five
```

31. Display first 5 lines of the file countfinal in terminal.

```
(gautamrajesh007@kali)-[~]  
$ head -5 countfinal  
One  
Two  
Three  
Four  
Five
```

32. Display last 4 lines of the file countfinal in terminal.

```
(gautamrajesh007@kali)-[~]  
$ tail -4 countfinal  
Twenty Two  
Twenty Three  
Twenty Four  
Twenty Five
```

33. Display the contents of the file countfinal in the inverted form.(last line first and first line last)

```
(gautamrajesh007@kali)-[~]  
$ tac countfinal
```

```
Twenty Five  
Twenty Four  
Twenty Three  
Twenty Two  
Twenty One  
Twenty  
Nineteen  
Eighteen  
Seventeen  
Sixteen  
Fifteen  
Fourteen  
Thirteen  
Twelve  
Eleven  
Ten  
Nine  
Eight  
Seven  
Six  
Five  
Four  
Three  
Two  
One
```

