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Day 2 OS Lab_Notes Sanket Shalukar

Tuesday, August 19, 2025 2:21 PM

Redirection operators

- >:Redirect output to a file
- Ex: Is > abc.txt
- >> Append output of a file
- 1. We can create a file using cat >test11.txt

And enter anything

```
kiran@CMKL-kiranw:~$ cat > test11.txt
Hello Rohini !
kiran@CMKL-kiranw:~$ cat test11.txt
Hello Rohini !
```

2. Use of Copy commend.

We can copy the content of a file to the another file using below commend.

```
kiran@CMKL-kiranw:~$ cat abc.txt
Hello Linux!

Hello Java !
Hello Python!
kiran@CMKL-kiranw:~$ cp abc.txt aaa.txt
kiran@CMKL-kiranw:~$ cat aaa.txt
Hello Linux!

Hello Java !
Hello Python!
```

```
/home/kiran
kiran@CNKL-kiranu:-$ cp file1.txt test11.txt
kiran@CNKL-kiranu:-$ mv abc.txt test12.txt
kiran@CNKL-kiranu:-$ ls

0S aaa.txt dir13 f2 f5 jh.txt test test1 test12.txt
aaa.c cdac dir2 f3 file notes.txt test.sh test1.sh user1
aaa.cp dir1 f1 f4 file1.txt s1.sh test.txt test1.txt user2
kiran@CNKL-kiranu:-$ cat test12.txt
Hello Java !
Hello Java !
Hello Python!
kiran@CNKL-kiranu:-$
```

Questions for practice

- 1. Create a directory CDAC
- 2. Create DIR1 and DIR2
- 3. Create one file and add 20 lines in that

```
sanket@Thekulkarni:~$ mkdir CDAC
sanket@Thekulkarni:~$ cd CDAC
sanket@Thekulkarni:~/CDAC$ mkdir Dir1 Dir2
sanket@Thekulkarni:~/CDAC$ touch file1.txt
sanket@Thekulkarni:~/CDAC$ ls
Dir1 Dir2 file1.txt
sanket@Thekulkarni:~/CDAC$ cat > file.txt
Hello This is Sanket Thankyou!sanket@Thekulkarni:~/CDAC$ cat file.txt
Hello This is Sanket Thankyou!sanket@Thekulkarni:~/CDAC$ cat file.txt
```

Question 1

```
kiran@CMKL-kiranw:~/cdac$ less colors.txt
kiran@CMKL-kiranw:~/cdac$ less colors.txt
Yellow
Pink
Red
Orange
Voilet
kiran@CMKL-kiranw:~/cdac$ head -3 colors.txt
Yellow
Pink
Red
Orange
Voilet
kiran@CMKL-kiranw:~/cdac$ head -3 colors.txt
```

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```
Yellow
Pink
Red
Orange
Voilet
Blue
Black
```

3. Rev filename.txt will revers it's content

```
kiran@CMKL-kiranw:~/cdac$ rev colors.txt
wolleY
kniP
deR
egnarO
telioV
eulB
kcalB
atnegaM
1wolleY
```

4. Wc filename.txt will give you

First number of line second number of words Third number of characters

```
kiran@CMKL-kiranw:~/cdac$ wc colors.txt
11 10 63 colors.txt
```

1. If you only wants only number of lines then

Wc-l

2. If you only want words then

Wc-w

3. If you only want characters then

Wc −c

4. You also can combine that using below screenshot cmnd.

```
kiran@CMKL-kiranw:~/cdac$ wc -l colors.txt
11 colors.txt
kiran@CMKL-kiranw:~/cdac$ wc -w colors.txt
10 colors.txt
kiran@CMKL-kiranw:~/cdac$ wc -c colors.txt
63 colors.txt
kiran@CMKL-kiranw:~/cdac$ wc -lw colors.txt
11 10 colors.txt
kiran@CMKL-kiranw:~/cdac$ wc -wc colors.txt
10 63 colors.txt
kiran@CMKL-kiranw:~/cdac$ wc -wc colors.txt
7 colors.txt
```

5. We can also count same time from differint files

Using wc file1.txt file2.txt

```
kiran@CMKL-kiranw:~/cdac$ wc file1.txt colors.txt

0, 0 0 file1.txt

11 10 63 colors.txt

11 2 9 63 total

kiran@CMKL-kiranw:~/cdac$ |
```

6. We can sort data using

Sort colours.txt

```
kiran@CMKL-kiranw:~/cdac$ sort colors.txt

Black
Blue
Magenta
Orange
Pink
Red
Red1
Voilet
Yellow
Yv ⊘ pw1
kiran@CMKL-kiranw:~/cdac$
```

7. If you want to sort data in reverse use – it will sort data with alphabetical order!

Sort –r filename.txt

```
kiran@CMKL-kiranw:~/cdac$ sort -r colors.txt
Yellow1
Yellow
Voilet
Red1
Red
Pink
Orange
Magenta
Blue
Black
```

8. If you want uniq data from your data

Use unia file.txt

```
kiran@CMKL-kiranw:~/cdac$ uniq colors.txt
Yellow
Pink
Red
Orange
Voilet
Blue
Black
Magenta
Yellow1
Red1
```

9. If you want to remove duplicate data then use

Sort filename.txt | uniq

```
kiran@CMKL-kiranw:~/cdac$ sort colors.txt | uniq
Black
Blue
RED
Red
Y( Ø ow
kiran@CMKL-kiranw:~/cdac$ |
```

10. If you want to know about all Linux commend then use

Man cat

```
NAME

cat - concatenate files and print on the standard output

SYNOPSIS

cat [OPTION]... [FILE]...

DESCRIPTION

Concatenate FILE(s) to standard output.

With no FILE, or when FILE is -, read standard input.

-A, --show-all

equivalent to -vET

-b, --number-nonblank

number nonempty output lines, overrides -n

-e equivalent to -vE

-E, --show-ends

display $ at end of each line

-n, --number

number all output lines
```

11. If you want all files that start with the letter then use

```
Is character* Example Ls* a
```

```
kiran@CMKL-kiranw:~/cdac$ ls A*
A AA AAA AB ABC ABCD
```

12. If you want multiple char data at a same time then

Use Is [abcd]*

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```
kiran@CMKL-kiranw:~/cdac$ ls [abc@]*
a aa aaa aaaa aaaaa calculate colors.txt courses.txt
kiran@CMKL-kiranw:~/cdac$
```

13. If you want to use editor to add data then use

Vi filename.txt

14. After inserting the data if you want to escape use

Esq + : + wq

```
Vi Editor:
-----
i : insert model
Esc + :wq => save +quit
```

```
kiran@CMKL-kiranw:~/cdac$ grep -i "unix" g1.txt
Unix
unix
unix
UNix
kiran@CMKL-kiranw:~/cdac$ grep -c "unix" g1.txt
3
kiran@CMKL-kiranw:~/cdac$ grep -l "unix" g1.txt
g1.txt
kiran@CMKL-kiranw:~/cdac$ grep -n "unix" g1.txt
g1.txt
kiran@CMKL-kiranw:~/cdac$ grep -n "unix" g1.txt
3:unix
4:2 ix
```

Question 4 Create grep file and write unix Unix UNix, unix and try with grep