<div align="center">

Institute of Computer Technology
B. Tech Computer Science and Engineering
Subject: BOSS (2CSE204)
## PRACTICAL-3

</div>

## AIM: - To learn Creating, Viewing and Editing files from the command line in Linux.

### Commands:

➢ *> file* – to overwrite content in a file

➢ *>> file* – to append content in a file

➢ *2> file* – to store error in a file

➢ *2> /dev/null* – To discard an error

➢ *> file 2>&1 or &> file* – to overwrite content or error in file

➢ *>> file 2>&1 or &>> file* – to append content or error in file

➢ *Command-1 | Command-2* – this is used for pipping; it means the output of 1st command is used as input for 2nd command.

➢ *Command-1 | tee Command-2 | Command-3* – in this output of 1st command is stored or display and also used as input for 3rd command.

➢ *Shift + V* – to view in Visual Line

➢ *Ctrl + V* – to view in Visual Block

➢ *v* – to go in visual mode

➢ *x* – to delete/terminate the character

➢ *u* – used to undo changes

➢ :q*!* – to quit vi editor without saving changes in file

### Exercise:

**1. Rehan wants to create directory Practical3 with 10 files & 3 subdirectories. Assign file name as Practical_exY.txt, Replace Y with exercise 1 to 10 & directory name as TempX, Replace X with 1 to 3.**

**SOLUTION:**

```
[yashpra1010@localhost ~]$ mkdir -p Practical3/Temp{1..3}
[yashpra1010@localhost ~]$ touch Practical3/Practical_ex{1..10}.txt
[yashpra1010@localhost ~]$ ls -R Practical3/
Practical3/:
Practical_ex10.txt  Practical_ex4.txt  Practical_ex8.txt  Temp3
Practical_ex1.txt   Practical_ex5.txt  Practical_ex9.txt
Practical_ex2.txt   Practical_ex6.txt  Temp1
Practical_ex3.txt   Practical_ex7.txt  Temp2

Practical3/Temp1:

Practical3/Temp2:

Practical3/Temp3:
[yashpra1010@localhost ~]$ 
```
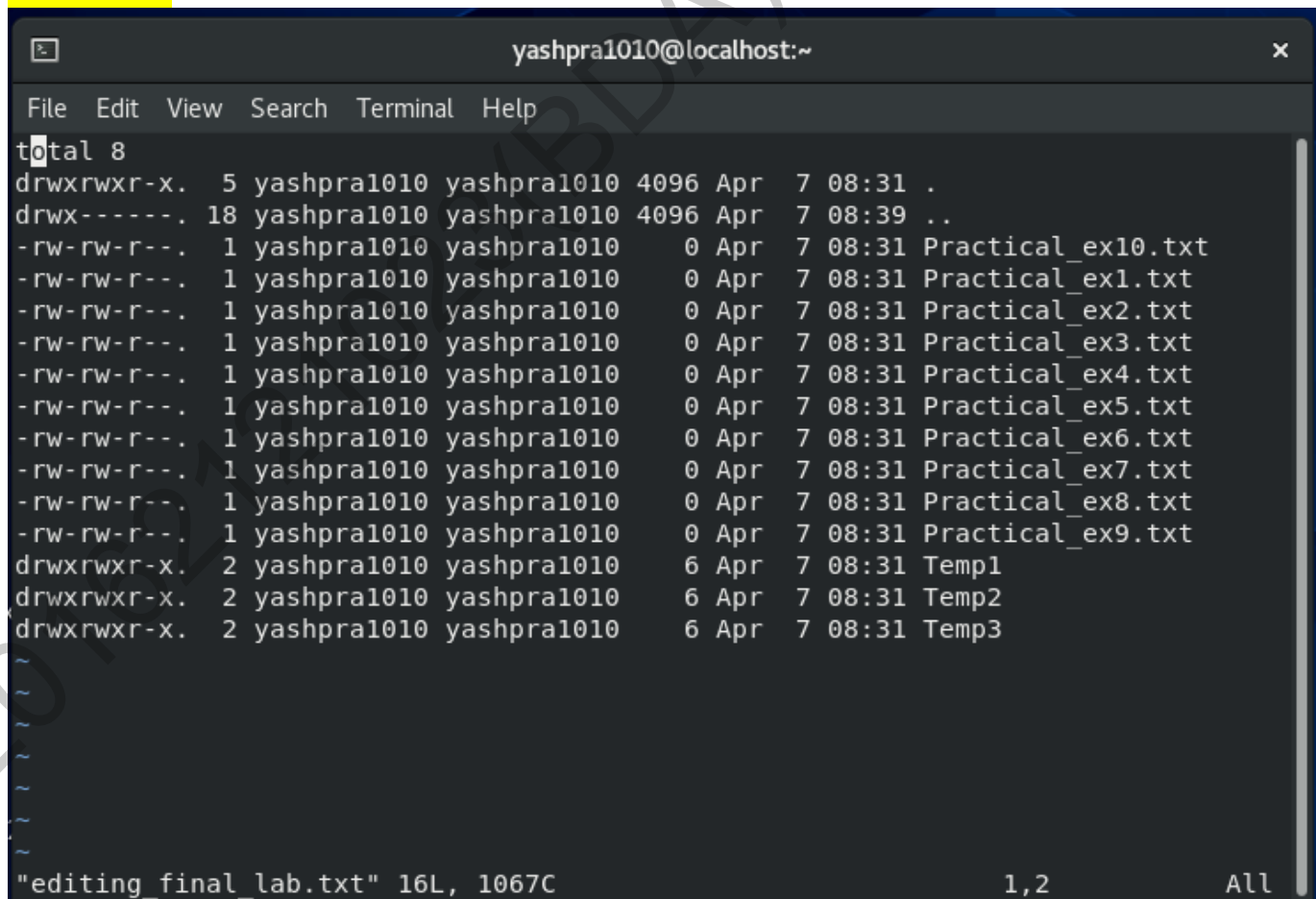
**2.** **Now, He wants to redirect a long listing of all content in the Practical3 directory, including hidden directories and files, into a file named editing_final_lab.txt.**

**SOLUTION:**

```
[yashpra1010@localhost ~]$ ls -al Practical3 > editing_final_lab.txt
[yashpra1010@localhost ~]$ cat editing_final_lab.txt
total 8
drwxrwxr-x.  5 yashpra1010 yashpra1010 4096 Apr  7 08:31 .
drwx------. 18 yashpra1010 yashpra1010 4096 Apr  7 08:39 ..
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex10.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex1.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex2.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex3.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex4.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex5.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex6.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex7.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex8.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex9.txt
drwxrwxr-x.  2 yashpra1010 yashpra1010    6 Apr  7 08:31 Temp1
drwxrwxr-x.  2 yashpra1010 yashpra1010    6 Apr  7 08:31 Temp2
drwxrwxr-x.  2 yashpra1010 yashpra1010    6 Apr  7 08:31 Temp3
[yashpra1010@localhost ~]$
```

-------------------------------------------------------------------------------------------------

**3.** **Edit the file using Vi.**

**SOLUTION:**

```
                          yashpra1010@localhost:~                          ✕

 File  Edit  View  Search  Terminal  Help
 total 8
 drwxrwxr-x.  5 yashpra1010 yashpra1010 4096 Apr  7 08:31 .
 drwx------. 18 yashpra1010 yashpra1010 4096 Apr  7 08:39 ..
 -rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex10.txt
 -rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex1.txt
 -rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex2.txt
 -rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex3.txt
 -rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex4.txt
 -rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex5.txt
 -rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex6.txt
 -rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex7.txt
 -rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex8.txt
 -rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr  7 08:31 Practical_ex9.txt
 drwxrwxr-x.  2 yashpra1010 yashpra1010    6 Apr  7 08:31 Temp1
 drwxrwxr-x.  2 yashpra1010 yashpra1010    6 Apr  7 08:31 Temp2
 drwxrwxr-x.  2 yashpra1010 yashpra1010    6 Apr  7 08:31 Temp3
 ~
 ~
 ~
 ~
 ~
 ~
 ~
 "editing_final_lab.txt" 16L, 1067C                        1,2             All
```

## 4. He wants to remove the first three lines. Enter line-based visual mode with uppercase V.

**SOLUTION:**

```
total 8
drwxrwxr-x.   5 yashpra1010 yashpra1010 4096 Apr   7 08:31 .
drwx------.  18 yashpra1010 yashpra1010 4096 Apr   7 08:39 ..
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex10.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex1.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex2.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex3.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex4.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex5.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex6.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex7.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex8.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex9.txt
drwxrwxr-x.   2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp1
drwxrwxr-x.   2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp2
drwxrwxr-x.   2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp3
~
~
~
~
~
~
~
-- VISUAL LINE --                                      3           3,1              All
```

```
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex10.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex1.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex2.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex3.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex4.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex5.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex6.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex7.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex8.txt
-rw-rw-r--.   1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex9.txt
drwxrwxr-x.   2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp1
drwxrwxr-x.   2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp2
drwxrwxr-x.   2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp3
~
~
~
~
~
~
~
~
3 fewer lines                                                     1,1              All
```

**5. Also, he wants to remove columns on the first line. Enter visual mode with lowercase v. Lowercase v selects characters on a single line only. The columns after -rw- should be deleted.**

<mark>SOLUTION:</mark>

```
-rw-[rw-r--.] 1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex10.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex1.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex2.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex3.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex4.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex5.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex6.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex7.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex8.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex9.txt
drwxrwxr-x.  2 yashpra1010 yashpra1010     6 Apr  7 08:31 Temp1
drwxrwxr-x.  2 yashpra1010 yashpra1010     6 Apr  7 08:31 Temp2
drwxrwxr-x.  2 yashpra1010 yashpra1010     6 Apr  7 08:31 Temp3
~
~
~
~
~
~
~
~
~
~
~
-- VISUAL --                                8        1,12           All
```

```
-rw- 1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex10.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex1.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex2.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex3.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex4.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex5.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex6.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex7.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex8.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010     0 Apr  7 08:31 Practical_ex9.txt
drwxrwxr-x.  2 yashpra1010 yashpra1010     6 Apr  7 08:31 Temp1
drwxrwxr-x.  2 yashpra1010 yashpra1010     6 Apr  7 08:31 Temp2
drwxrwxr-x.  2 yashpra1010 yashpra1010     6 Apr  7 08:31 Temp3
~
~
~
~
~
~
~
~
~
~
~
                                                     1,5            All
```

-------------------------------------------------------------------------------------------------------------

**6. Remove columns, and the subsequent dot (".") on the remaining lines. Use the visual block mode. Enter visual block with the control sequence Ctrl+V. Use this key sequence**

**to select a block of characters on multiple lines. The columns after -rw- should be deleted.**

SOLUTION:

```
yashpra1010@localhost:~                              ×

File   Edit   View   Search   Terminal   Help

-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex10.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex1.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex2.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex3.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex4.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex5.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex6.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex7.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex8.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex9.txt
drwxrwxr-x.  2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp1
drwxrwxr-x.  2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp2
drwxrwxr-x.  2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp3
~
~
~
~
~
~
~
~
~
-- VISUAL BLOCK --                             13x7        13,11        All
```

```
yashpra1010@localhost:~                              ×

File   Edit   View   Search   Terminal   Help

-rw-  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex10.txt
-rw-  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex1.txt
-rw-  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex2.txt
-rw-  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex3.txt
-rw-  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex4.txt
-rw-  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex5.txt
-rw-  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex6.txt
-rw-  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex7.txt
-rw-  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex8.txt
-rw-  1 yashpra1010 yashpra1010    0 Apr   7 08:31 Practical_ex9.txt
drwx  2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp1
drwx  2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp2
drwx  2 yashpra1010 yashpra1010    6 Apr   7 08:31 Temp3
~
~
~
~
~
~
~
                                                     1,5          All
```

**7. Rehan wants to remove the fourth column. Use appropriate visual mode for the same.**

*SOLUTION:*

```
yashpra1010@localhost:~                                    ×

File   Edit   View   Search   Terminal   Help
-rw-   1 yashpra1010 yashpra1010     0 Apr   7 08:31 Practical_ex10.txt
-rw-   1 yashpra1010 yashpra1010     0 Apr   7 08:31 Practical_ex1.txt
-rw-   1 yashpra1010 yashpra1010     0 Apr   7 08:31 Practical_ex2.txt
-rw-   1 yashpra1010 yashpra1010     0 Apr   7 08:31 Practical_ex3.txt
-rw-   1 yashpra1010 yashpra1010     0 Apr   7 08:31 Practical_ex4.txt
-rw-   1 yashpra1010 yashpra1010     0 Apr   7 08:31 Practical_ex5.txt
-rw-   1 yashpra1010 yashpra1010     0 Apr   7 08:31 Practical_ex6.txt
-rw-   1 yashpra1010 yashpra1010     0 Apr   7 08:31 Practical_ex7.txt
-rw-   1 yashpra1010 yashpra1010     0 Apr   7 08:31 Practical_ex8.txt
-rw-   1 yashpra1010 yashpra1010     0 Apr   7 08:31 Practical_ex9.txt
drwx   2 yashpra1010 yashpra1010     6 Apr   7 08:31 Temp1
drwx   2 yashpra1010 yashpra1010     6 Apr   7 08:31 Temp2
drwx   2 yashpra1010 yashpra1010     6 Apr   7 08:31 Temp3
~
~
~
~
~
~
~
~
~
~
-- VISUAL BLOCK --                              13x11        13,31        All
```

```
yashpra1010@localhost:~                                    ×

File   Edit   View   Search   Terminal   Help
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex10.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex1.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex2.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex3.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex4.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex5.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex6.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex7.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex8.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex9.txt
drwx   2 yashpra1010      6 Apr   7 08:31 Temp1
drwx   2 yashpra1010      6 Apr   7 08:31 Temp2
drwx   2 yashpra1010      6 Apr   7 08:31 Temp3
~
~
~
~
~
~
~
~
~
~
                                                            1,21         All
```

**8. Also, he doesn't want to use time column, so remove the time column using relevant mode to delete column data, leaving the month and day on all lines.**
**SOLUTION:**

```
                              yashpra1010@localhost:~                              ×

 File   Edit   View   Search   Terminal   Help
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex10.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex1.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex2.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex3.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex4.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex5.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex6.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex7.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex8.txt
-rw-   1 yashpra1010      0 Apr   7 08:31 Practical_ex9.txt
drwx   2 yashpra1010      6 Apr   7 08:31 Temp1
drwx   2 yashpra1010      6 Apr   7 08:31 Temp2
drwx   2 yashpra1010      6 Apr   7 08:31 Temp3
~
~
~
~
~
~
~
~
~
~
~
-- VISUAL BLOCK --                                  13x5        13,38         All
```

```
                              yashpra1010@localhost:~                              ×

 File   Edit   View   Search   Terminal   Help
-rw-   1 yashpra1010      0 Apr   7  Practical_ex10.txt
-rw-   1 yashpra1010      0 Apr   7  Practical_ex1.txt
-rw-   1 yashpra1010      0 Apr   7  Practical_ex2.txt
-rw-   1 yashpra1010      0 Apr   7  Practical_ex3.txt
-rw-   1 yashpra1010      0 Apr   7  Practical_ex4.txt
-rw-   1 yashpra1010      0 Apr   7  Practical_ex5.txt
-rw-   1 yashpra1010      0 Apr   7  Practical_ex6.txt
-rw-   1 yashpra1010      0 Apr   7  Practical_ex7.txt
-rw-   1 yashpra1010      0 Apr   7  Practical_ex8.txt
-rw-   1 yashpra1010      0 Apr   7  Practical_ex9.txt
drwx   2 yashpra1010      6 Apr   7  Temp1
drwx   2 yashpra1010      6 Apr   7  Temp2
drwx   2 yashpra1010      6 Apr   7  Temp3
~
~
~
~
~
~
~
~
~
~
                                                               1,34          All
```

**9. Remove the Practical_ex10.txt and Temp3 rows using appropriate visual mode.**
*SOLUTION:*

```
┌─┐                              yashpra1010@localhost:~                              ✕
 File   Edit   View   Search   Terminal   Help
-rw-  1 yashpra1010      0 Apr   7    Practical_ex1.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex2.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex3.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex4.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex5.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex6.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex7.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex8.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex9.txt
drwx  2 yashpra1010      6 Apr   7    Temp1
drwx  2 yashpra1010      6 Apr   7    Temp2
~
~
~
~
~
~
~
~
~
~
~
~
                                                              11,1              All
```
---------------------------------------------------------------------------------------------------------------

**10.** **Now he wants to save the changes and exit from the file. Also wants to keep a backup file of modified file, using the date (in seconds) to create a unique file name.**
**SOLUTION:**

```
┌─┐                              yashpra1010@localhost:~                              ✕
 File   Edit   View   Search   Terminal   Help
-rw-rw-r--.  1 yashpra1010 yashpra1010      0 Apr   7 08:31 Practical_ex6.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010      0 Apr   7 08:31 Practical_ex7.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010      0 Apr   7 08:31 Practical_ex8.txt
-rw-rw-r--.  1 yashpra1010 yashpra1010      0 Apr   7 08:31 Practical_ex9.txt
drwxrwxr-x.  2 yashpra1010 yashpra1010      6 Apr   7 08:31 Temp1
drwxrwxr-x.  2 yashpra1010 yashpra1010      6 Apr   7 08:31 Temp2
drwxrwxr-x.  2 yashpra1010 yashpra1010      6 Apr   7 08:31 Temp3
[yashpra1010@localhost ~]$ vi editing_final_lab.txt
[yashpra1010@localhost ~]$ man date
[yashpra1010@localhost ~]$ cp editing_final_lab.txt editing_final_lab_$(date +%s
).txt
[yashpra1010@localhost ~]$ cat editing_final_lab_1617766706.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex1.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex2.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex3.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex4.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex5.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex6.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex7.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex8.txt
-rw-  1 yashpra1010      0 Apr   7    Practical_ex9.txt
drwx  2 yashpra1010      6 Apr   7    Temp1
drwx  2 yashpra1010      6 Apr   7    Temp2
[yashpra1010@localhost ~]$
```

**11. He wants to append a dashed line into the file. The dashed line should contain at least 12 dashes.**

SOLUTION:

```
[yashpra1010@localhost ~]$ echo "------------" >> editing_final_lab.txt
[yashpra1010@localhost ~]$ cat editing_final_lab.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex1.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex2.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex3.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex4.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex5.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex6.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex7.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex8.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex9.txt
drwx  2 yashpra1010      6 Apr  7  Temp1
drwx  2 yashpra1010      6 Apr  7  Temp2
------------
[yashpra1010@localhost ~]$
```

--------------------------------------------------------------------------------------------------------

**12. Also need to append a directory listing of the Documents directory. List the directory listing on the terminal and send it to the editing_final_lab.txt file with one command line.**

SOLUTION:

```
[yashpra1010@localhost ~]$ ls Documents/ | tee -a editing_final_lab.txt
backups
my_bestseller
project_plans
[yashpra1010@localhost ~]$ cat editing_final_lab.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex1.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex2.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex3.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex4.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex5.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex6.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex7.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex8.txt
-rw-  1 yashpra1010      0 Apr  7  Practical_ex9.txt
drwx  2 yashpra1010      6 Apr  7  Temp1
drwx  2 yashpra1010      6 Apr  7  Temp2
------------
backups
my_bestseller
project_plans
[yashpra1010@localhost ~]$
```

**13. Confirm that the directory listing is at the bottom of the lab file.**
*SOLUTION:*

```
[yashpra1010@localhost ~]$ ls Documents/ | tee -a editing_final_lab.txt
backups
my_bestseller
project_plans
[yashpra1010@localhost ~]$ cat editing_final_lab.txt
-rw-  1 yashpra1010     0 Apr  7  Practical_ex1.txt
-rw-  1 yashpra1010     0 Apr  7  Practical_ex2.txt
-rw-  1 yashpra1010     0 Apr  7  Practical_ex3.txt
-rw-  1 yashpra1010     0 Apr  7  Practical_ex4.txt
-rw-  1 yashpra1010     0 Apr  7  Practical_ex5.txt
-rw-  1 yashpra1010     0 Apr  7  Practical_ex6.txt
-rw-  1 yashpra1010     0 Apr  7  Practical_ex7.txt
-rw-  1 yashpra1010     0 Apr  7  Practical_ex8.txt
-rw-  1 yashpra1010     0 Apr  7  Practical_ex9.txt
drwx  2 yashpra1010     6 Apr  7  Temp1
drwx  2 yashpra1010     6 Apr  7  Temp2
-----------
backups
my_bestseller
project_plans
[yashpra1010@localhost ~]$ 
```