

Subject: OSY	Subject Code:22516
Semester:5 th Semester	Course: Computer Engineering
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Experiment No:	9
Title of Experiment	Use vi editor and perform all editor commands

X1. EXERCISE

1. write significance of following
 - i. \$vi temp.txt,
 - ii. insert multiple lines,
 - iii. deleting contents using commands

Ans:

i. \$vi temp.txt:

This command opens the file "temp.txt" in the vi editor, where you can view, edit, and manipulate its contents in different modes (insert, command, visual, etc.).

ii. Insert multiple lines:

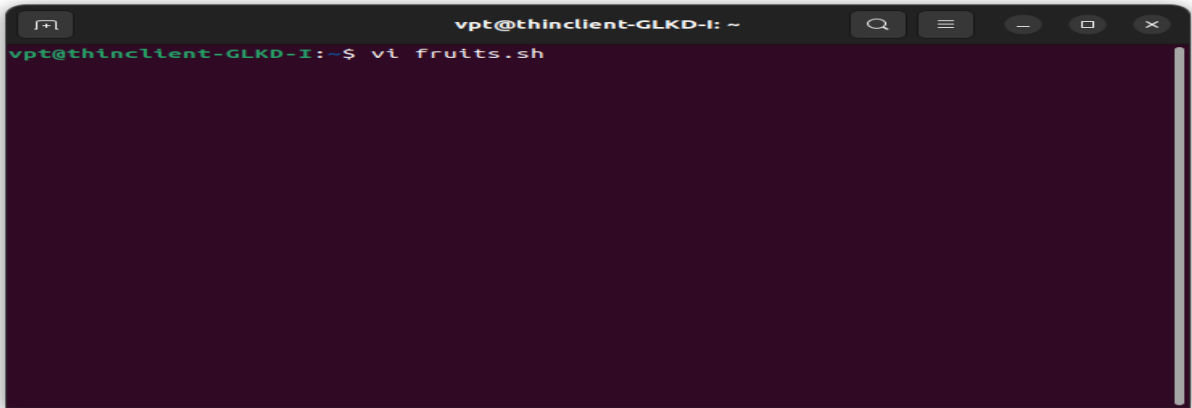
In vi, pressing i switches to insert mode, allowing you to add multiple lines of text. Press Esc to return to command mode when done.

iii. Deleting contents using commands:

Use dd in command mode to delete a single line, or d<number>d to delete multiple lines. The :x or :wq commands will save and exit after deletion.

2. Create a new file and practice and executing shell commands from within the editor. Capture the results of some shell commands into the file

Ans:



```
vpt@thinclient-GLKD-I: ~  
vpt@thinclient-GLKD-I:~$ vi fruits.sh
```



```
vpt@thinclient-GLKD-I: ~  
Apple  
Mango  
Grapes  
Banana  
Chickoo  
Blackberry  
Guava  
Cherry  
Blueberry  
Cocunut  
Custard Apple  
Apricot  
Avocado  
Blake Currant  
Palm  
Dates  
Lemon  
Kiwi  
Orange  
JackFruit  
Pomegrante  
Pine Apple  
"fruits.sh" [New File]
```

Sr. No.	Command	Description
1	k	Moves the cursor up one line
2	j	Moves the cursor down one line
3	h	Moves the cursor to the left one character position
4	l	Moves the cursor to the right one character position

1. k

```
Lemon
Kiwi
Orange
JackFruit
Pomegrante
Pine Applke
"fruits.sh" [New File]
```

```
Lemon
Kiwi
Orange
JackFruit
Pomegrante
Pine Applke
"fruits.sh" [New File]
```

2. j

```
Lemon
Kiwi
Orange
JackFruit
Pomegrante
Pine Applke
"fruits.sh" [New File]
```

```
Lemon
Kiwi
Orange
JackFruit
Pomegrante
Pine Applke
"fruits.sh" [New File]
```

3. h

```
Lemon
Kiwi
Orange
JackFruit
Pomegrante
Pine Applke
"fruits.sh" [New File]
```

```
Lemon
Kiwi
Orange
JackFruit
Pomegrante
Pine Applke
"fruits.sh" [New File]
```

4. i

```
Lemon
Kiwi
Orange
JackFruit
Pomegrante
Pine Applke
"fruits.sh" [New File]
```

```
Lemon
Kiwi
Orange
JackFruit
Pomegrante
Pine Applke
"fruits.sh" [New File]
```

Editing Files

To edit the file, you need to be in the insert mode. There are many ways to enter the insert mode from the command mode –

Sr. No.	Command	Description
1	i	Inserts text before the current cursor location
2	I	Inserts text at the beginning of the current line
3	a	Inserts text after the current cursor location
4	A	Inserts text at the end of the current line
5	o	Creates a new line for text entry below the cursor location
6	O	Creates a new line for text entry above the cursor location

1. i

```
Black Currant
Palm
Dates
Lemon

Kiwi
Orange
JackFruit
Pomegrante
```

```
Black Currant
Palm
Dates
Lemon

Kiwi
Orange
JackFruit
Pomegrante
```

2. I

```
Blackc Currant  
Palm  
Dates  
Lemon
```

```
Kiwi  
Orange  
JackFruit  
Pomegrante
```

```
FruitBlackc Currant  
Palm  
Dates  
Lemon
```

```
Kiwi  
Orange  
JackFruit  
Pomegrante
```

3. a

```
Blueberry  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant
```

```
BlueberryFruit  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant
```

4. A

```
BlueberryFruit  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant
```

```
BlueberryFruitTaste  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant
```

5. o

```
BlueberryFruitTaste  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant
```

```
BlueberryFruitTaste  
Jamon  
Cocunut  
Custard Apple  
Apricot  
Avocado
```

6.0

```
BlueberryFruitTaste
Jamun
Cocunut
Custard Apple
Apricot
Avocado
```

```
Olive
BlueberryFruitTaste
Jamun
Cocunut
Custard Apple
Apricot
```

Page movement Description:-

Sr. No.	Command	Description
1	CTRL+d -	Move forward 1/2 screen
2	CTRL+f-	Move forward one full screen
3	CTRL+u -	Move backward 1/2 screen
4	CTRL+b	Move backward one full screen
5	CTRL+e	Moves screen up one line
6	CTRL+y-	Moves screen down one line
7	CTRL+I	Redraws screen

1. CTRL+d

```
vpt@thinclient-GLKD-I: ~
Apple
Mango
Grapes
Banana
Chickoo
Blackberry
Guava
Cherry
Olive
BlueberryFruitTaste
Jamun
Cocunut
Custard Apple
Apricot
Avocado
FruitBlackc Currant
Palm
Dates
Lemon
Kiwi
Orange
```

```
vpt@thinclient-GLKD-I: ~
Grapes
Banana
Chickoo
Blackberry
Guava
Cherry
Olive
BlueberryFruitTaste
Jamun
Cocunut
Custard Apple
Apricot
Avocado
FruitBlackc Currant
Palm
Dates
Lemon
Kiwi
Orange
JackFruit
Pomegrante
Pine Applke
```

2. CTRL+f

```
vpt@thinclient-CLKD-I: ~  
|  
Apple  
Mango  
Grapes  
Banana  
Chickoo  
Blackberry  
Guava  
Cherry  
Olive  
BlueberryFruitTaste  
Jamun  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant  
Palm  
Dates  
Lemon  
  
Kiwi  
Orange
```

[illegible]

3. CTRL+u

```
vpt@thinclient-GLKD-l: ~  
Kiwi  
Orange  
JackFruit  
Pomegrante  
Pine Applke
```

A terminal window titled "vpt@thinclient-GLKD-l: ~". The background is black with green text. It displays five lines of fruit names: Kiwi, Orange, JackFruit, Pomegrante, and Pine Applke.

```
vpt@thinclient-GLKD-I: ~  
BlueberryFruitTaste  
Jamun  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant  
Palm  
Dates  
Lemon  
  
Kiwi  
Orange  
JackFruit  
Pomegrante  
Pine Applike  
^C  
^C  
^C  
^C  
^C  
^C  
^C
```

4. CTRL+b

```
vpt@thinclient-GLKD-I: ~  
BlueberryFruitTaste  
Jamun  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant  
Palm  
Dates  
Lemon  
  
Kiwi  
Orange  
JackFruit  
Pomegrante  
Pine Applke  
~  
~  
~  
~  
~
```

```
vpt@thinclient-GLKD-I: ~  
Apple  
Mango  
Grapes  
Banana  
Chickoo  
Blackberry  
Guava  
Cherry  
Olive  
BlueberryFruitTaste  
Jamun  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant  
Palm  
Dates  
Lemon  
  
Kiwi  
Orange
```

5. CTRL+e

```
vpt@thinclient-GLKD-I: ~  
Mango  
Grapes  
Banana  
Chickoo  
Blackberry  
Guava  
Cherry  
Olive  
BlueberryFruitTaste  
Jamun  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant  
Palm  
Dates  
Lemon  
  
Kiwi  
Orange  
JackFruit  
Pomegrante
```

```
vpt@thinclient-GLKD-I: ~  
Grapes  
Banana  
Chickoo  
Blackberry  
Guava  
Cherry  
Olive  
BlueberryFruitTaste  
Jamun  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant  
Palm  
Dates  
Lemon  
  
Kiwi  
Orange  
JackFruit  
Pomegrante  
Pine Applke
```


6. CTRL+y

```
vpt@thinclient-GLKD-I: ~  
Grapes  
Banana  
Chickoo  
Blackberry  
Guava  
Cherry  
Olive  
BlueberryFruitTaste  
Jamun  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant  
Palm  
Dates  
Lemon  
  
Kiwi  
Orange  
JackFruit  
Pomegrante  
Pine Applke
```

```
vpt@thinclient-GLKD-I: ~  
Mango  
Grapes  
Banana  
Chickoo  
Blackberry  
Guava  
Cherry  
Olive  
BlueberryFruitTaste  
Jamun  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant  
Palm  
Dates  
Lemon  
  
Kiwi  
Orange  
JackFruit  
Pomegrante
```

7. CTRL+I

```
vpt@thinclient-GLKD-I: ~  
Mango  
Grapes  
Banana  
Chickoo  
Blackberry  
Guava  
Cherry  
Olive  
BlueberryFruitTaste  
Jamun  
Cocunut  
Custard Apple  
Apricot  
Avocado  
FruitBlackc Currant  
Palm  
Dates  
Lemon  
  
Kiwi  
Orange  
JackFruit  
Pomegrante
```

Deleting Characters

Here is a list of important commands, which can be used to delete characters and lines in an open file –

Sr. No.	Command	Description
1	x	Deletes the character under the cursor location
2	X	Deletes the character before the cursor location
3	Dw	Deletes from the current cursor location to the next word
4	d^	Deletes from the current cursor position to the beginning of the line
5	d\$	Deletes from the current cursor position to the end of the line
6	D	Deletes from the cursor position to the end of the current line
7	dd	Deletes the line the cursor is on

1. x

```
Apricot
Avocado
FruitBlack Currant
Palm
Dates
Lemon
```

```
Apricot
Avocado
FruitBlack Currant
Palm
Dates
Lemon
Kiwi
```

2. X

```
Apricot
Avocado
FruitBlack Currant
Palm
Dates
Lemon
Kiwi
```

```
Apricot
Avocado
FruitBlack Currant
Palm
Dates
Lemon
Kiwi
```

3. Dw

```
Lemon
Kiwi
Orange
JackFruit
Pomegrante
Pine Apple
~
~
```

```
Lemon
Kiwi
Orange
JackFruit
Pomegrante
~
~
```

4. d^

```
Lemon
Kiwi
Orange
JackFruit
Pomegrante
~
~
```

```
Lemon
Kiwi
Orange
JackFruit
e
~
~
```

5. d\$

```
Lemon
Kiwi
Orange
JackFruit
e
~
~
```

```
Lemon
Kiwi
Orange
Jac
e
~
~
```

6. D

```
Lemon
Kiwi
Orange
Jac
e
~
~
```

```
Lemon
Kiwi
Or
Jac
e
~
~
```

7. dd

```
Banana
Chickoo
BlackberryFruit
█
Guava
Cherry
Olive
BlueberryFruitTaste
```

```
Banana
Chickoo
BlackberryFruit
█
Guava
Cherry
Olive
BlueberryFruitTaste
Jamun
```

Change Commands

You also have the capability to change characters, words, or lines in vi without deleting them.

Sr. No.	Command	Description
1	cc	Removes the contents of the line, leaving you in insert mode.
2	cw	Changes the word the cursor is on from the cursor to the lowercase w end of the word.
3	r	Replaces the character under the cursor. vi returns to the command mode after the replacement is entered.
4	R	Overwrites multiple characters beginning with the character currently under the cursor. You must use Esc to stop the overwriting.
5	s	Replaces the current character with the character you type. Afterward, you are left in the insert mode.
6	S	Deletes the line the cursor is on and replaces it with the new text. After the new text is entered, vi remains in the insert mode.

1. cc

```
Banana
Chickoo
BlackberryFruit
█
Guava
Cherry
Olive
BlueberryFruitTaste
Jamun
```

```
Banana
Chickoo
BlackberryFruit
█
Cherry
Olive
```

2. cw

```
Banana
Chickoo
BlackberryFruit
|
Cherry
Olive
```

```
Banana
Chickoo
BlackberryFruit
Cherr$
Olive
BlueberryFruitTaste
```

3. r

```
Banana
Chickoo
BlackberryFruit
Cherr$
Olive
BlueberryFruitTaste
```

```
Banana
Chickoo
BlackberryFruit
|
Olive
BlueberryFruitTaste
Jamun
```

4. R

```
Banana
Chickoo
BlackberryFruit
|
Olive
BlueberryFruitTaste
Jamun
```

```
Banana
Chickoo
BlackberryFruit
Hello|
BlueberryFruitTaste
Jamun
```

5. s

```
Banana
Chickoo
BlackberryFruit
Hello|
BlueberryFruitTaste
Jamun
```

```
Banana
Chickoo
BlackberryFruit
Hello$
BlueberryFruitTaste
Jamun
```

6.5

```
Banana
Chickoo
BlackberryFruit
Hell
BlueberryFruitTaste
Jamun
```

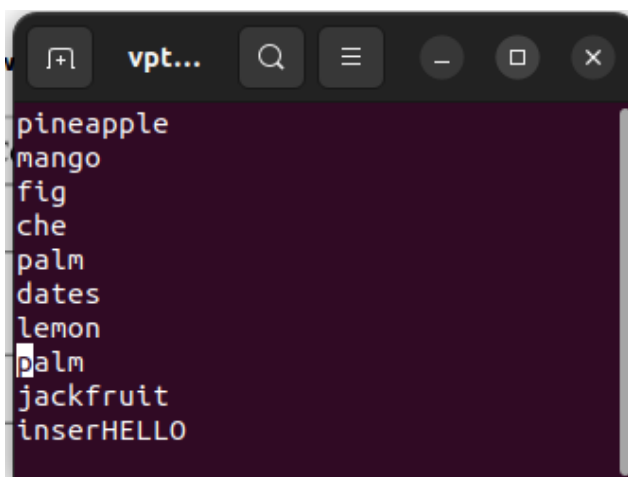
```
Banana
Chickoo

Hell
BlueberryFruitTaste
Jamun
```

Copy and Paste Command

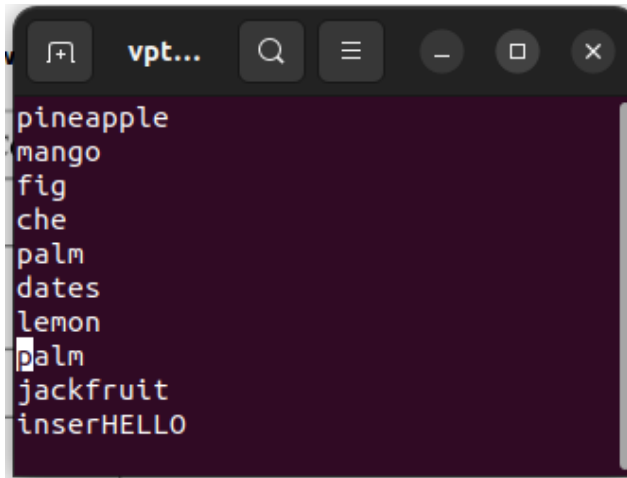
Sr. No.	Command	Description
1	yy	Copies the current line.
2	yw-	Copies the current word from the character the lowercase w cursor is on, until the end of the word.
3	p	Puts the copied text after the cursor
4	P	Puts the yanked text before the cursor.

1. yy

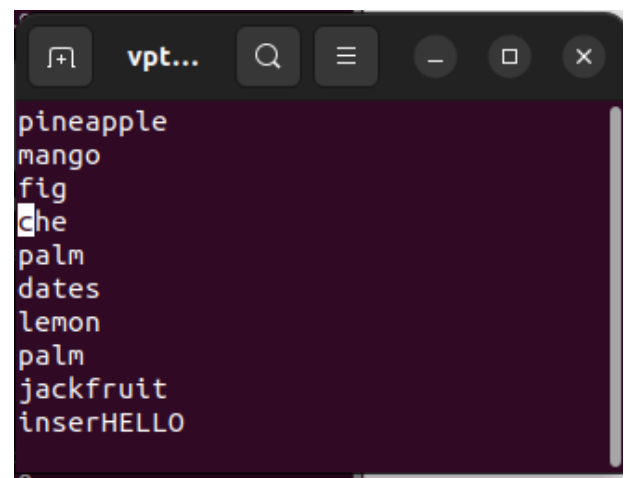


```
vpt... [Search] [Menu] [Window] [Close]
pineapple
mango
fig
che
palm
dates
lemon
palm
jackfruit
inserHELLO
```

2. yw-

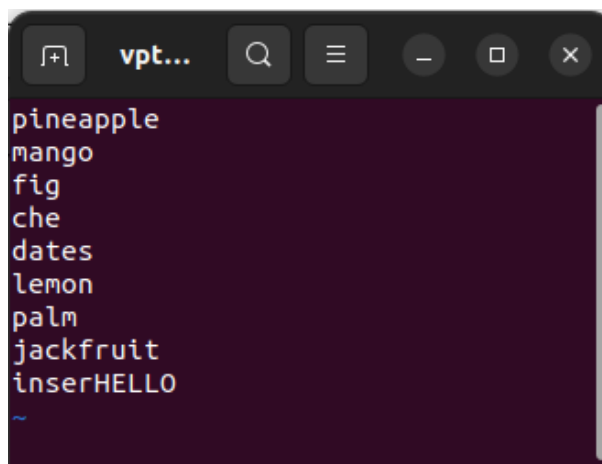


```
vpt... [search] [menu] [back] [close]
pineapple
mango
fig
che
palm
dates
lemon
palm
jackfruit
inserHELLO
```

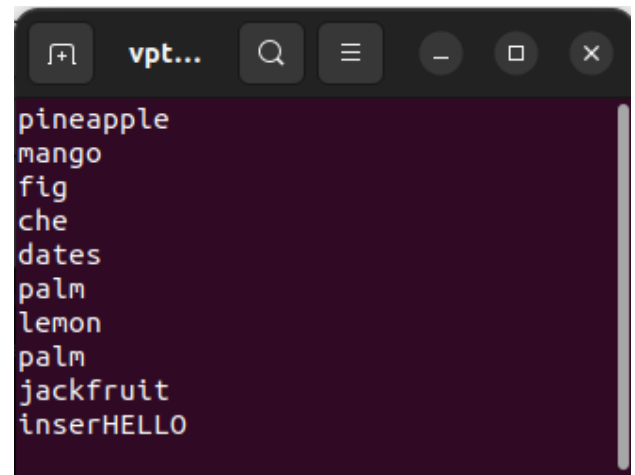


```
vpt... [search] [menu] [back] [close]
pineapple
mango
fig
che
palm
dates
lemon
palm
jackfruit
inserHELLO
```

3. p

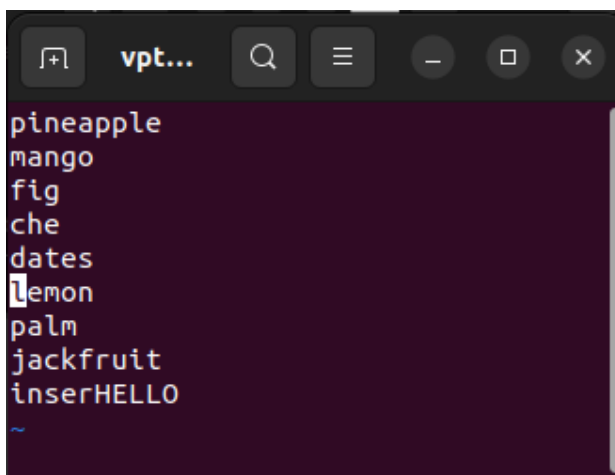


```
vpt... [search] [menu] [back] [close]
pineapple
mango
fig
che
dates
lemon
palm
jackfruit
inserHELLO
~
```

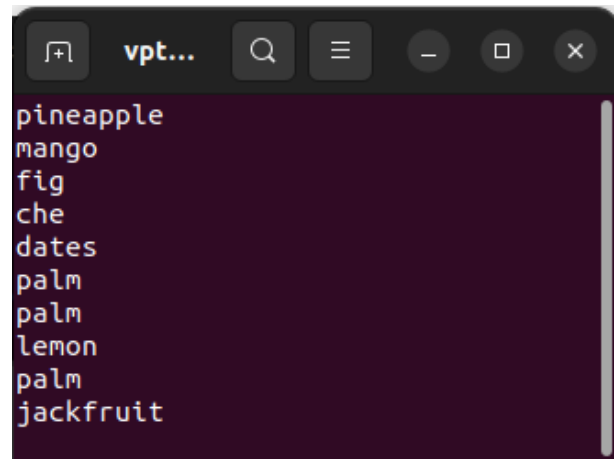


```
vpt... [search] [menu] [back] [close]
pineapple
mango
fig
che
dates
palm
lemon
palm
jackfruit
inserHELLO
```

4. P



```
vpt... [search] [menu] [back] [close]
pineapple
mango
fig
che
dates
lemon
palm
jackfruit
inserHELLO
~
```



```
vpt... [search] [menu] [back] [close]
pineapple
mango
fig
che
dates
palm
palm
lemon
palm
jackfruit
```

Ex mode command

Press Esc key and then (:) colon to enter ex-mode commands. A colon is displayed at the left hand corner of the last line on your screen.

Command	Action
:w	Saves file and remains in editing mode
:x	Saves file and quits editing mode
:wq	Save and quit
:q	Quits vi when no changes are made
:q!	Quits vi cancelling the changes
:sh	Escape to Unix shell

1. :w

```
"fr.txt" [New File] 7 lines, 38 bytes written
```

2. :x

```
vpt@thinclient-GLKD-I:~$ vi fr.txt
vpt@thinclient-GLKD-I:~$
```

3. :wq

```
vpt@thinclient-GLKD-I:~$ vi fr.txt
vpt@thinclient-GLKD-I:~$
```

4. :q

```
vpt@thinclient-GLKD-I:~$ vi fr.txt
vpt@thinclient-GLKD-I:~$
```


5. :q!

```
vpt@thinclient-GLKD-I:~$ vi fr.txt  
vpt@thinclient-GLKD-I:~$
```

6. :sh

```
vpt@thinclient-GLKD-I:~$
```

3. How to get help?

Ans:

To get help in the vi editor:

In command mode, type :help and press Enter to access the help documentation within the editor. It provides a comprehensive guide to vi commands and usage.