

Assignment No.03

VI Editor

There are many ways to edit files in UNIX and one of the best way is using screen-oriented text editor vi. This editor enables you to edit lines in context with other lines in the file. Now days you would find an improved version of vi editor which is called VIM. Here VIM stands for Vi Improved.

OPERATION MODES

COMMAND MODE: This mode enables you to perform administrative tasks such as saving files, executing commands, moving the cursor, cutting yanking and pasting lines or words, and finding and replacing. In this mode, whatever you type is interpreted as a command.

INSERT MODE: This mode enables you to insert text into the file. Everything that's typed in this mode is interpreted as input and finally it is put in the file.

STARTING THE VI EDITOR

Command	Description
<i>vi filename</i>	<i>Creates a new file if it already does not exist, otherwise opens existing file.</i>

EXAMPLE:

\$vi testfile

TO EXIT VI

Command	Description
<i>:x</i>	<i>Quit vi, writing out modified file to file named in original invocation</i>
<i>:wq</i>	<i>Quit vi, writing out modified file to file named in original invocation</i>
<i>:q</i>	<i>Quit vi even though latest changes have not been saved for this vi call</i>

MOVING WITHIN A FILE

Command	Description
<i>k</i>	<i>Moves the cursor up one line.</i>
<i>j</i>	<i>Moves the cursor down one line.</i>
<i>h</i>	<i>Moves the cursor to the left one character position.</i>
<i>l</i>	<i>Moves the cursor to the right one character position.</i>

0 (zero)	<i>Move cursor to start of current line(the one with the arrow)</i>
\$	<i>Move cursor to end of the current line</i>
w	<i>Move cursor to beginning of next word</i>
b	<i>Move cursor back to beginning of preceding word</i>
:0<return> or 1G	<i>Move cursor to first line in file</i>
:n<return>or nG	<i>Move cursor to line n in file</i>
:\$<return>or G	<i>Move cursor to last line in file</i>

ADDING,CHANGING,DELETING THE TEXT

Command	Description
u	<i>Undo whatever you just did(a simple toggle)</i>
nu	<i>n number steps undo(n is a any number)</i>

INSERTING OR ADDING TEXT

Command	Description
i	<i>Insert text before cursor</i>
I	<i>Insert text at beginning of current line</i>
a	<i>Append text after cursor</i>
A	<i>Append text to end of current line</i>
o	<i>Open and put text in a new line below current line</i>
O	<i>Open and put text in a new line above current line</i>

CHANGING THE TEXT

Command	Description
r	<i>Replaces the character under the cursor</i>
R	<i>Overwrites multiple characters beginning with the character currently under the cursor</i>
s	<i>Replaces the current character with the character you type</i>
S	<i>Deletes the line the cursor is on and replaces with new text</i>

DELETING CHARACTERS

Command	Description
x	<i>Deletes the character under the cursor location.</i>
X	<i>Deletes the character before the cursor location</i>
D	<i>Deletes from the cursor position to the end of the current line.</i>
dd	<i>Deletes the line the cursor is on.</i>
ndd	<i>delete the next N lines,including the current line</i>

COPY AND PASTE COMMANDS

Command	Description
<i>yy</i>	<i>Copy(yank) the current line</i>
<i>nyy</i>	<i>copy(yank, cut) the next N lines, including the current line</i>
<i>p</i>	<i>Puts the copied text after the cursor</i>
<i>P</i>	<i>Puts the yanked text before the cursor</i>

SEARCHING THE TEXT

Command	Description
<i>/string</i>	<i>Search forward for occurrence of string in text</i>
<i>?string</i>	<i>Search backward for occurrence of string in text</i>
<i>n</i>	<i>Move to next occurrence of search string</i>
<i>N</i>	<i>Move to next occurrence of search string in opposite direction</i>

ADVANCED COMMANDS

Command	Description
<i>J</i>	<i>Join the current line with the next one. A count joins that many lines</i>
<i>:w newfile</i>	<i>Write current contents to a new file named newfile</i>
<i>:12,35w smallfile</i>	<i>Write the contents of the line numbered 12 through 35 to a new file named smallfile</i>
<i>:1,10s/helo/hello/g</i>	<i>Substitution of a text with another text within a range of lines</i>