

USN: 20BTRCO048

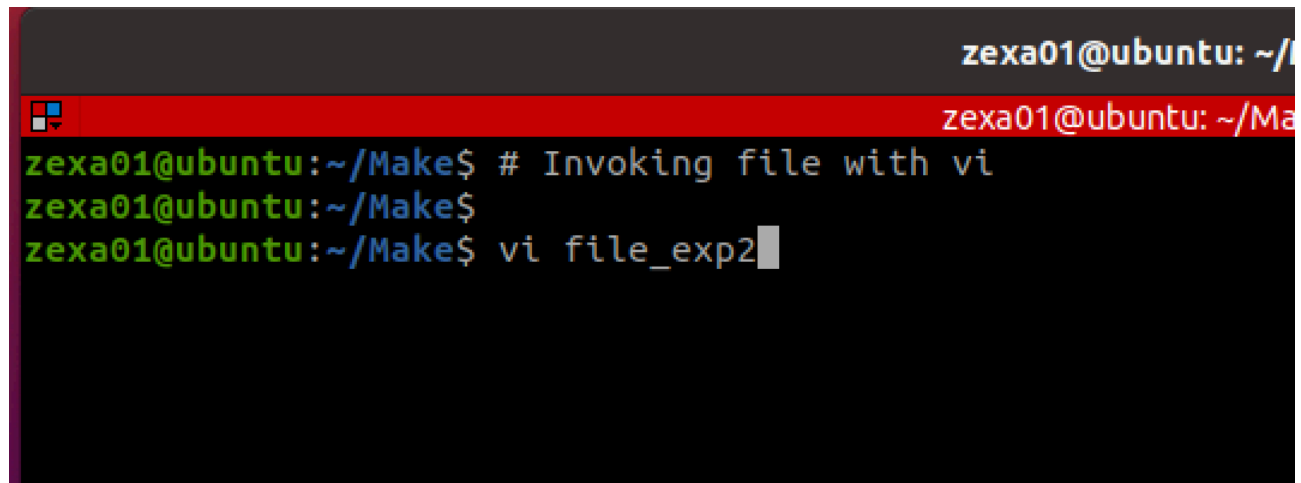
NAME: Ajay Kumar Mandal

Ex No: 2

Date: 24th, Feb, 2022

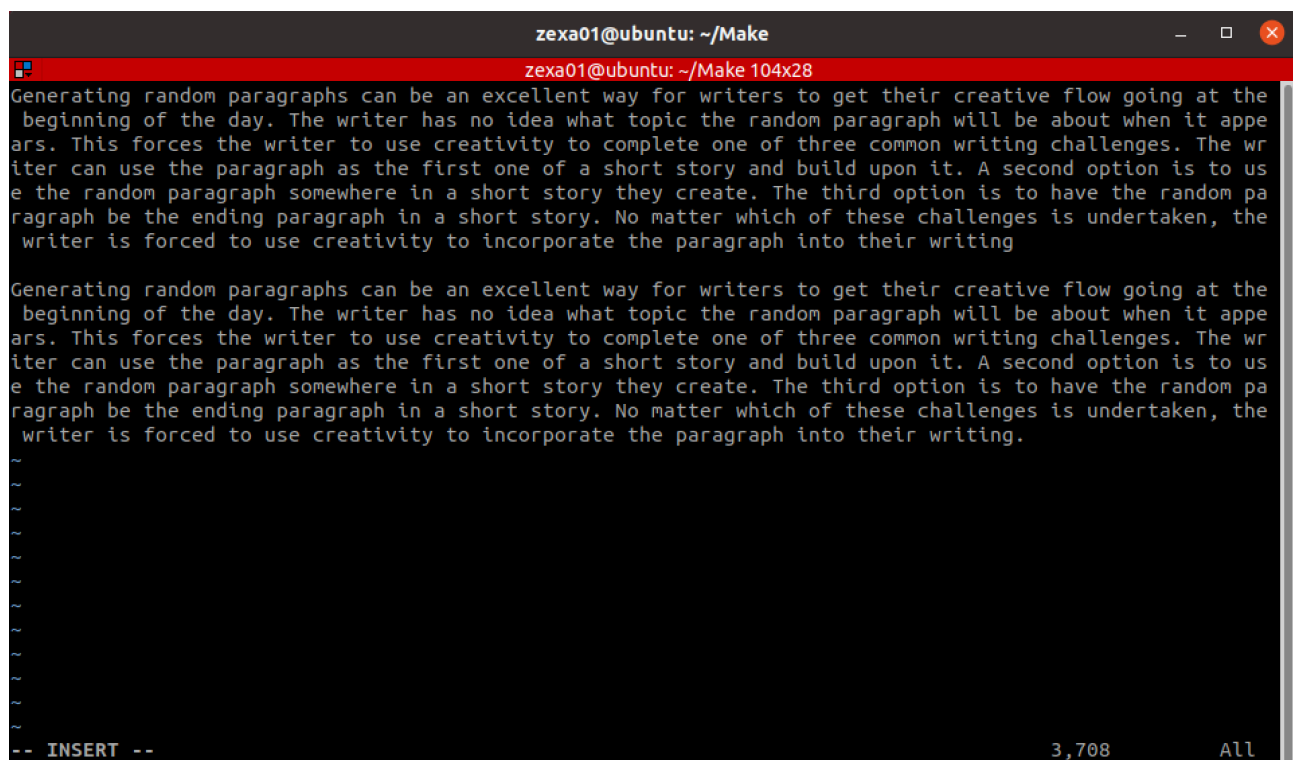
## Basic functionality and modes of VI editor

### Invoking vi



```
zexa01@ubuntu: ~/l
zexa01@ubuntu: ~/Ma
zexa01@ubuntu:~/Make$ # Invoking file with vi
zexa01@ubuntu:~/Make$
zexa01@ubuntu:~/Make$ vi file_exp2
```

### Inserting random two paragraph to test all command cases



```
zexa01@ubuntu: ~/Make
zexa01@ubuntu: ~/Make 104x28
Generating random paragraphs can be an excellent way for writers to get their creative flow going at the
beginning of the day. The writer has no idea what topic the random paragraph will be about when it appe
ars. This forces the writer to use creativity to complete one of three common writing challenges. The wr
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~
~
~
~
~
~
~
~
~
~
-- INSERT --
3,708 All
```

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j or <Enter> [or down-arrow] : move cursor down one line

k [or up-arrow] : move cursor up one line

### h or <Backspace> [ left-arrow] : move cursor left one character

| or <Space> [or right-arrow]. : move cursor right one character

0 (zero) : move cursor to start of the current line (the one with the cursor)

\$ : move cursor to the end of the current line

w : move cursor to the beginning of next word

- b : move the cursor back to the beginning of preceding word

:0<Enter> or 1G : move the cursor to the first line in the file

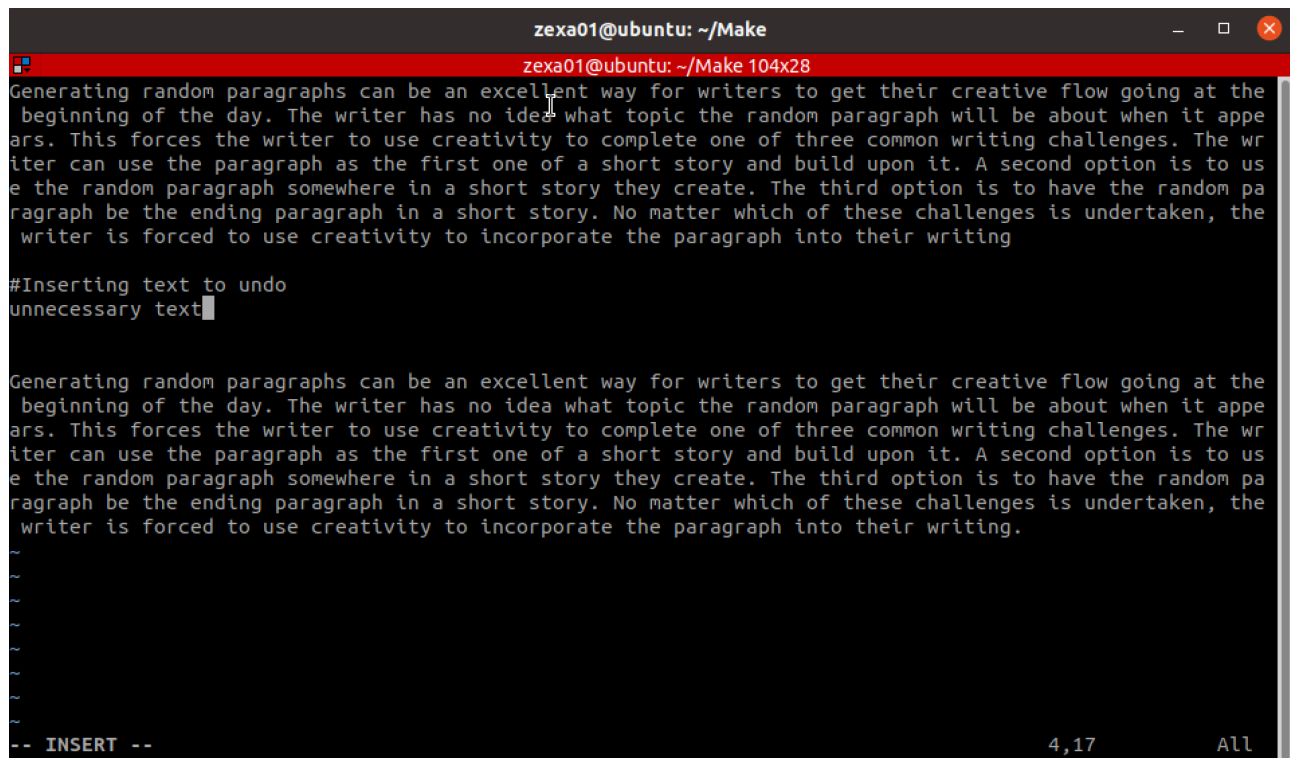
:\$<Enter> or G : move the cursor to the last line in the file

Every commands work well !!

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## Adding and Deleting Text



The screenshot shows a terminal window titled 'zexa01@ubuntu: ~/Make'. Inside, a file named '104x28' is open in a text editor. The file contains a paragraph of text about generating random paragraphs. The cursor is positioned at the end of the first paragraph. Below the paragraph, the text '#Inserting text to undo unnecessary text' is visible. The status bar at the bottom shows '-- INSERT --', '4,17', and 'All'.

```
zexa01@ubuntu: ~/Make
zexa01@ubuntu: ~/Make 104x28
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#Inserting text to undo
unnecessary text

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~
~
~
~
~
~
-- INSERT --                                4,17                                All
```

Now undo the written text with u, On clicking u the text disappear



The screenshot shows the same terminal window as before, but now the text '#Inserting text to undo unnecessary text' has been removed. The status bar at the bottom shows '1 line less; before #2 83 seconds ago', '3,0-1', and 'All'.

```
zexa01@ubuntu: ~/Make
zexa01@ubuntu: ~/Make 104x28
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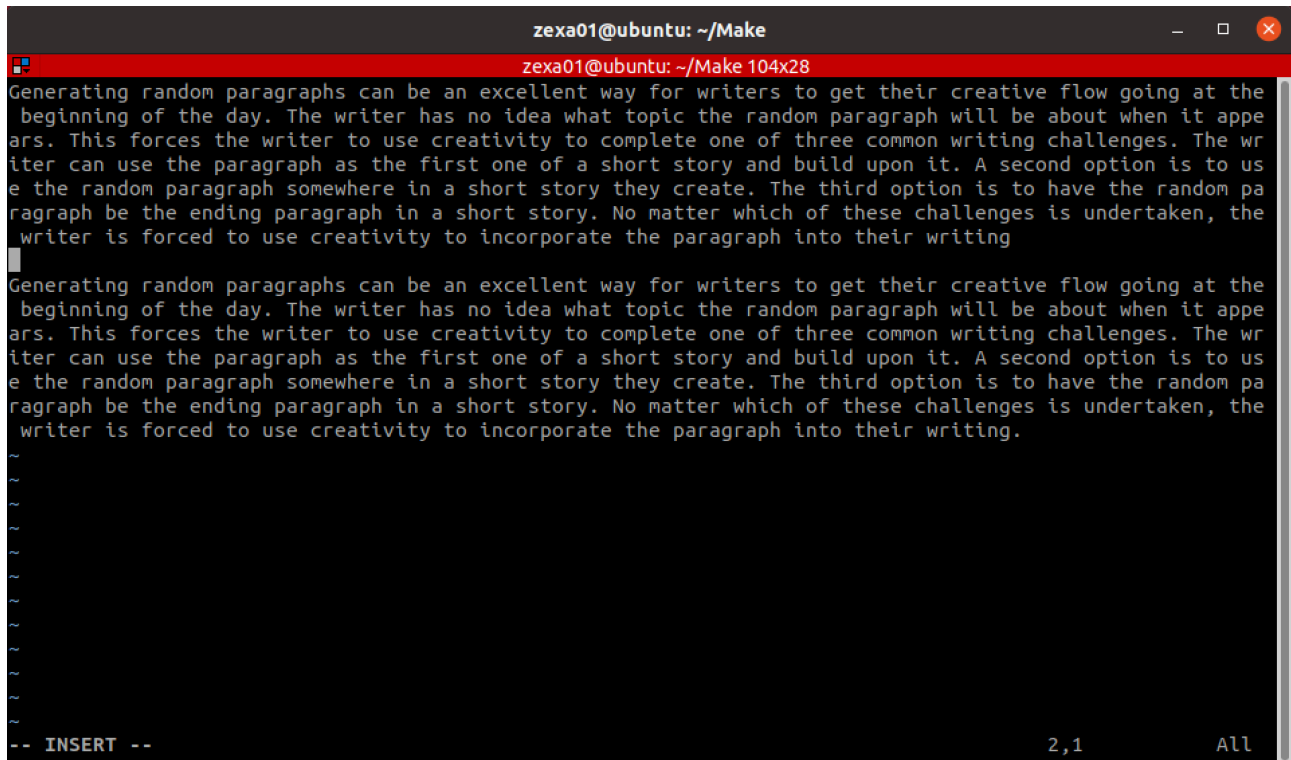
~
~
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~
~
~
1 line less; before #2 83 seconds ago        3,0-1                                All
```

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## Inserting or Adding Text

i insert text before the cursor, until <Esc> hit

A screenshot of a terminal window titled 'zexa01@ubuntu: ~/Make'. The terminal shows a paragraph of text about generating random paragraphs. The text is displayed in two lines, with the second line starting with a space character. The terminal status bar at the bottom shows '-- INSERT --' on the left, '2,1' in the center, and 'All' on the right. The terminal window has a red title bar and standard window controls (minimize, maximize, close) on the right side.

```
zexa01@ubuntu: ~/Make
zexa01@ubuntu: ~/Make 104x28
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~
-- INSERT --                2,1                All
```

On clicking 'I', we have option to insert text and as we click <esc>, the insert option disable

## Deleting Text

The following commands allow you to delete text :

1. X : delete single character under the cursor
2. Nx : delete N characters, starting with a character under the cursor
3. Dw : delete the single word beginning with a character under the cursor
4. dNw : delete N words beginning with a character under cursor; e.g., d5w deletes 5 words
5. D : delete the remainder of the line, starting with the current cursor position
6. Dd : delete entire current line
7. Ndd or dNd : delete N lines, beginning with the current line; e.g., 5dd deletes 5 lines

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Some showdowns :

Using 5x



```
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~
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~
1 change; before #6 5 seconds ago 3,1 All
```

Starting 5 letters of Generating were deleted.

Using Dd, Entire line was deleted.



```
zexa01@ubuntu: ~/Make
zexa01@ubuntu: ~/Make 104x28
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~
~
1,0-1 All
```

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## Cutting and Pasting Text

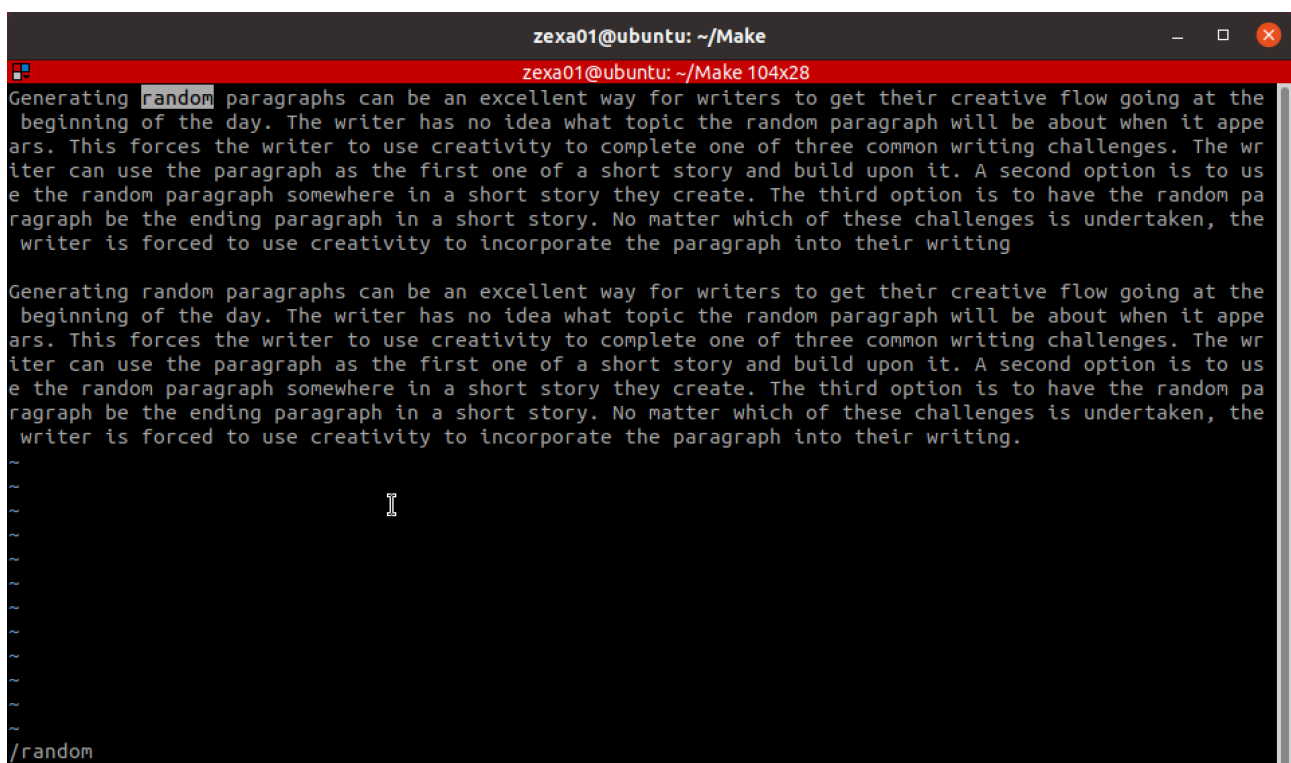
The following commands allow you to copy and paste text :

- Yy : copy (yank, cut) the current line into the buffer
- Nyy or yNy : copy (yank, cut) the next N lines, including the current line, into the buffer
- P : put (paste) the line(s) in the buffer into the text after the current line

## Searching Text

A common occurrence in text editing is to replace one word or phrase by another. To locate instances of particular sets of characters (or strings), use the following commands.

1. /string : search forward for the occurrence of a string in the text
2. ?string : search backward for the occurrence of a string in the text
3. n : move to next occurrence of the search string
4. N : move to next occurrence of the search string in opposite direction



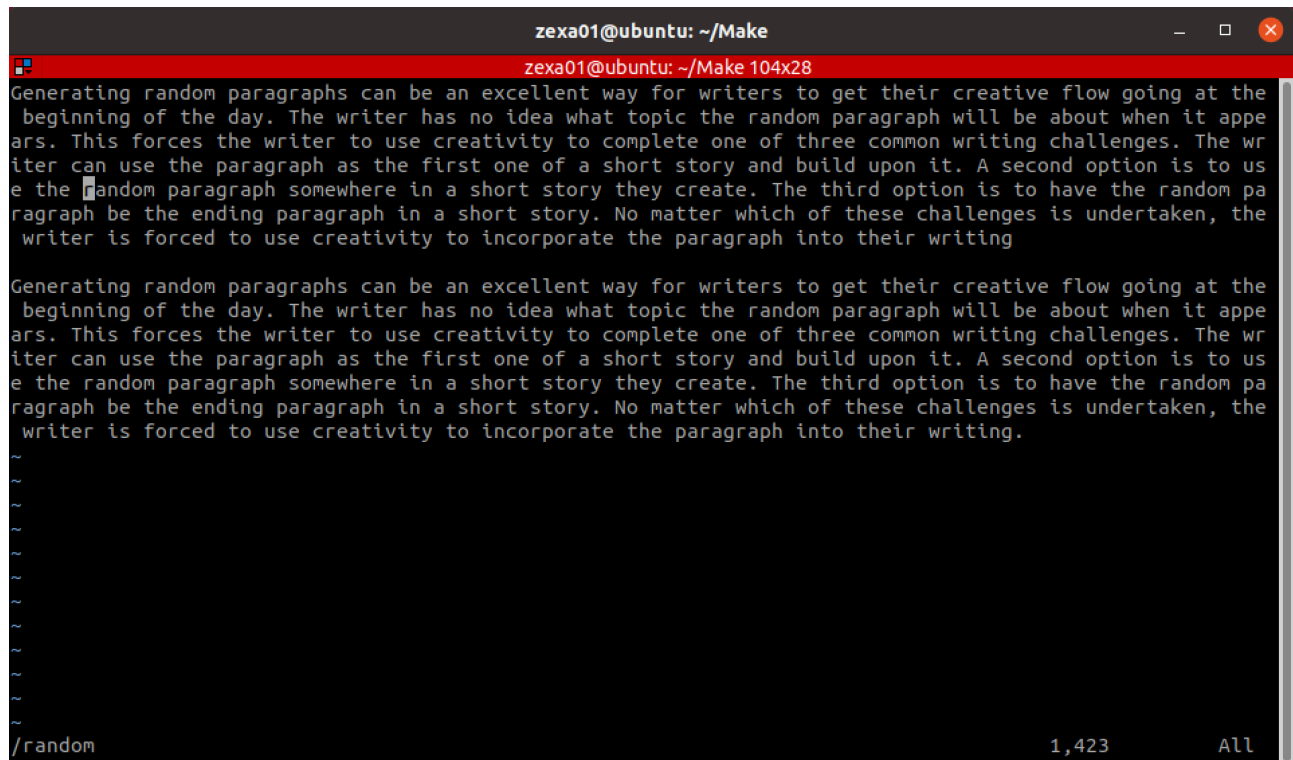
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zexa01@ubuntu: ~/Make
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~
~
~
~
~
~
~
~
~
~
/random
```

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The screenshot shows a terminal window with the title bar 'zexa01@ubuntu: ~/Make'. The terminal content displays the output of a search command. It shows two identical paragraphs of text, each followed by a tilde '~' on a new line. At the bottom, a search bar shows '/random' on the left, '1,423' in the center, and 'All' on the right. The terminal window has standard Ubuntu window controls (minimize, maximize, close) in the top right corner.

```
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~
~
~
~
~
~
~
~
~
~
/random 1,423 All
```

On clicking 'n', cursor move to next 'random' keyword as per search

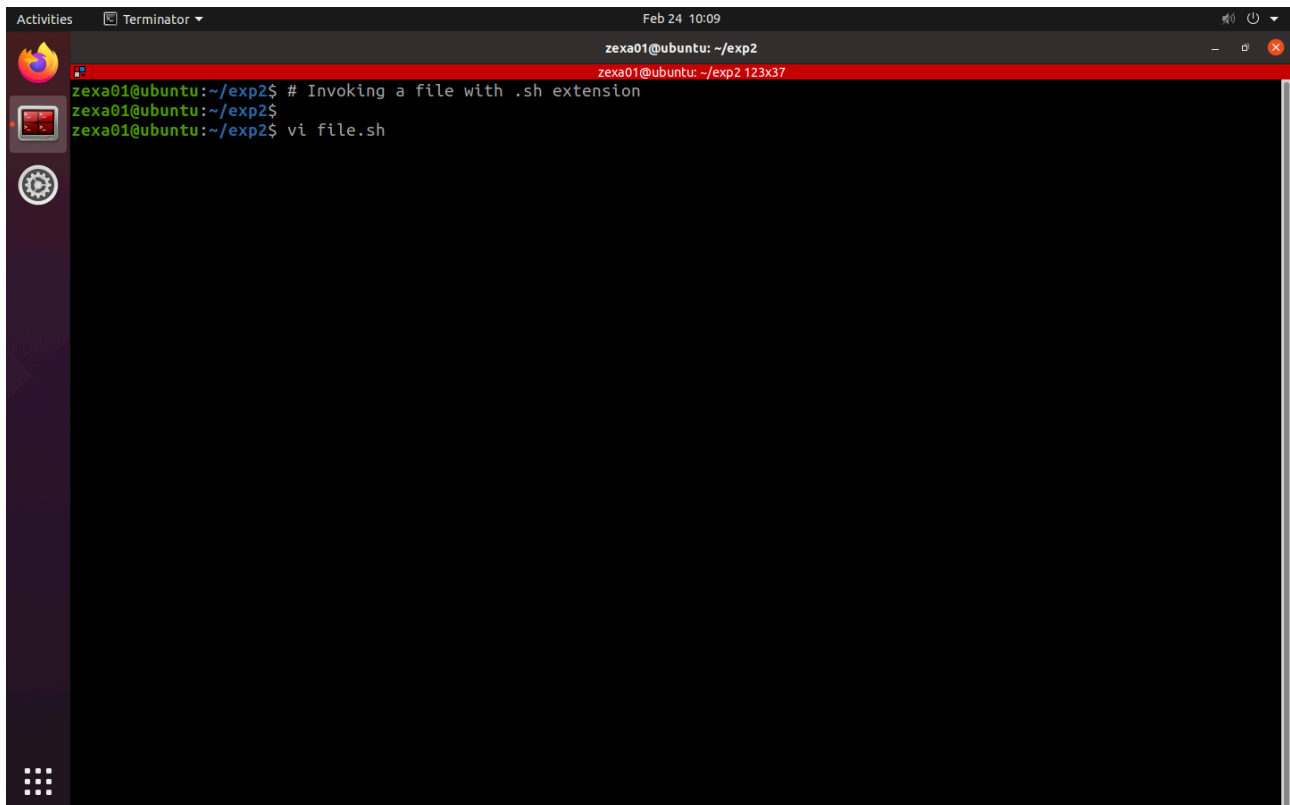
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Follow the following steps in each case to execute the programs:

1. To write the programs, create new files for each program by writing in the command

prompt: vi file.sh



The screenshot shows a terminal window titled 'Terminator' with a dark background. The window's title bar includes 'Activities', 'Terminator', and the date 'Feb 24 10:09'. The terminal content shows a user 'zexa01' at 'ubuntu' in the directory '~/exp2'. The user enters the command '# Invoking a file with .sh extension', which is followed by a red status bar indicating 'zexa01@ubuntu: ~/exp2 123x37'. The user then enters 'vi file.sh', and the terminal screen turns black, indicating the start of a new file.

```
zexa01@ubuntu: ~/exp2$ # Invoking a file with .sh extension
zexa01@ubuntu: ~/exp2$
zexa01@ubuntu: ~/exp2$ vi file.sh
```



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2. Write the program as plain text (in Insert mode)

A screenshot of a Linux desktop environment. At the top, there's a panel with "Activities", "Terminator", and the date/time "Feb 24 10:10". Below this is a terminal window titled "zexa01@ubuntu: ~/exp2". The terminal has a red title bar and shows the following commands and output:

```
#Name input and display  
  
read name  
  
echo "Your Name = $name"  
~  
~  
~  
~  
~  
~  
~  
~  
~  
~  
~  
~  
~  
~  
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~  
~  
~  
~  
~  
~
```

The left sidebar contains icons for the Dash, Home folder, Recent files, and Applications menu. The bottom status bar shows "6,24" and "All".

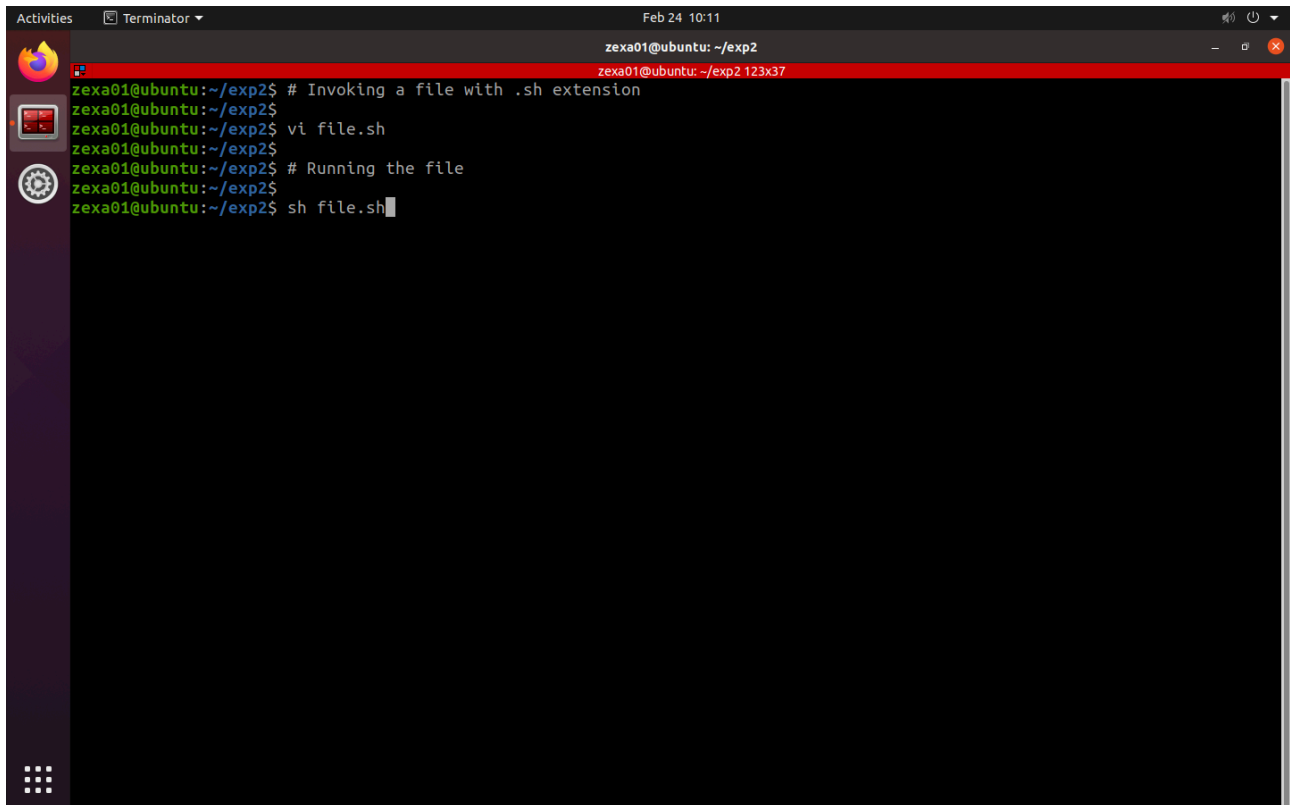
### 3. Save the file and exit

[illegible]

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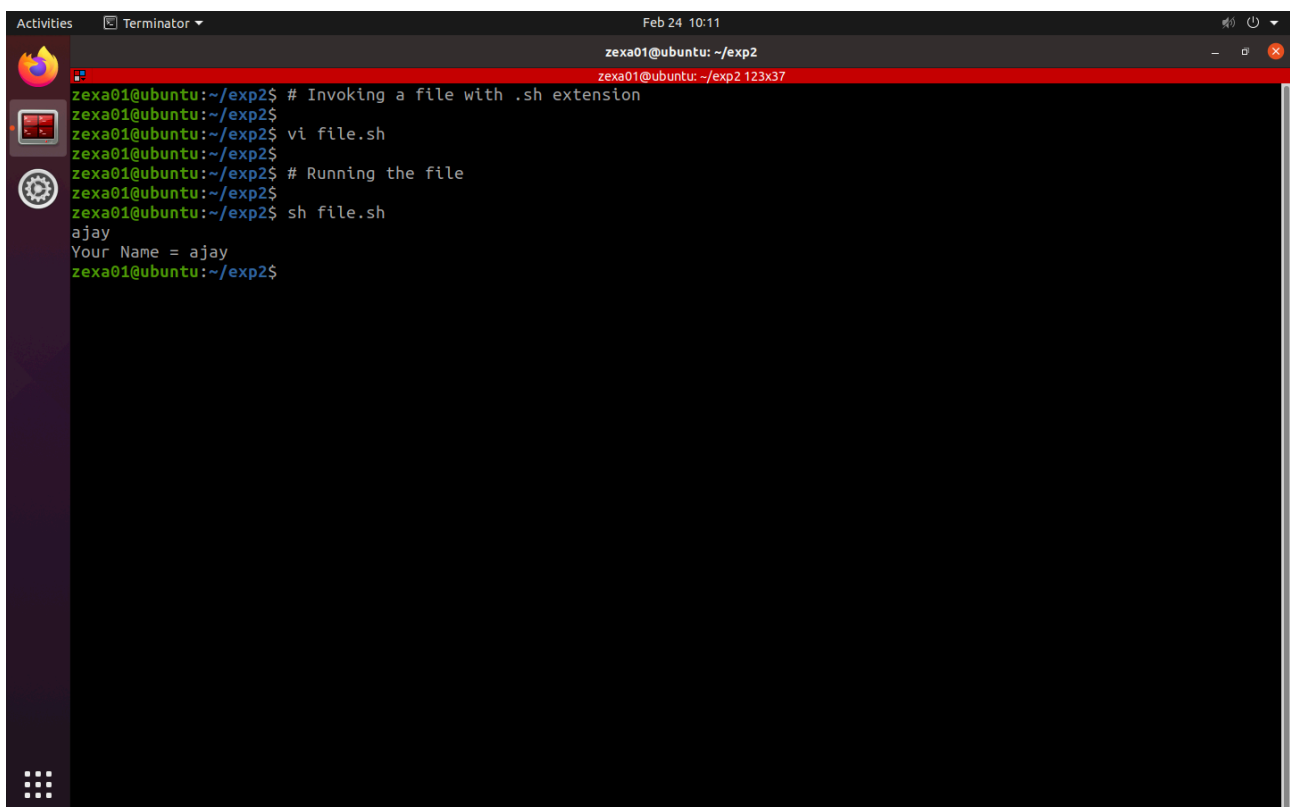
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4. Run the file by giving following command in the command prompt: sh file.sh



A screenshot of a terminal window titled 'Terminator' with a dark background. The window shows a series of commands and their outputs. The user 'zexa01' is in the directory '~/exp2'. The commands entered are: '# Invoking a file with .sh extension', 'vi file.sh', '# Running the file', and 'sh file.sh'. The terminal window has a red title bar and standard window controls on the right. The left sidebar shows the Ubuntu desktop environment with icons for Activities, Home, and Applications.

```
zexa01@ubuntu: ~/exp2
zexa01@ubuntu:~/exp2$ # Invoking a file with .sh extension
zexa01@ubuntu:~/exp2$ vi file.sh
zexa01@ubuntu:~/exp2$
zexa01@ubuntu:~/exp2$ # Running the file
zexa01@ubuntu:~/exp2$ sh file.sh
```



A screenshot of the same terminal window showing the output of the 'sh file.sh' command. The output is 'ajay' followed by 'Your Name = ajay'. The terminal window title and window controls remain the same. The left sidebar shows the Ubuntu desktop environment.

```
zexa01@ubuntu:~/exp2$ sh file.sh
ajay
Your Name = ajay
zexa01@ubuntu:~/exp2$
```