

Aim: Familiarization with Linux command.

CO2: Perform system administration tasks.

Procedure:

1. read: in order to read content of a single line.

\$read

Output:

```
student@t2:~/diya$ read
helloo, My name is Diya
```

- i. \$read: to insert contents in multiple line '\n' is used.

\$read

Output:

```
student@t2:~$ read
Student \
> Ajce \
> koovapally
student@t2:~$ echo $REPLY
Student Ajce koovapally
```

- ii. read -p ["message"]: to prompt the message for user.

\$read -p "Enter your name"

Output:

```
student@t2:~$ read -p "Enter your name"
Enter your name Diya
```

- iii. read -s -p ["message"]: to prompt the message and for secure.

\$read -s -p "Enter your password"

Output:

```
student@t2:~/diya$ read -s -p "Enter Password:"
Enter Password:student@t2:~/diya$ echo "password is $REPLY"
password is 123456
student@t2:~/diya$ echo $REPLY
123456
```

- iv. read [variable1] [variable2]...[variable n]:to assign the content to variable.

\$read [var1] [var2] [var3]

Output:

```
student@t2:~/diya$ read var1 var2 var3
Amal jyothi college kanjirapally
student@t2:~/diya$ echo [$var1][$var2][$var3]
[Amal][jyothi][college kanjirapally]
```

2. wc: it is used to find out number of lines, words count, bytes and character count in the file.

\$wc tesst.txt

Output:

```
student@t2:~/diya$ wc tesst.txt
3 4 17 tesst.txt
```

- i. wc -l [filename]: this option prints the number of lines present in the file.

\$wc -l tesst.txt

Output:

```
student@t2:~/diya$ wc -l tesst.txt
3 tesst.txt
```

- ii. `wc -m [filename]`: display count of character from a file.

`$wc -m test.txt`

Output:

```
student@t2:~/diya$ wc -m tesst.txt
17 tesst.txt
```

- iii. `wc -c [filename]`: display count of bytes present in the file.

`$wc -c test.txt`

Output:

```
student@t2:~/diya$ wc -c tesst.txt
17 tesst.txt
```

- iv. `wc -L [filename]`: used to printout the length of longest line in a file.

`$wc -L tesst.txt`

Output:

```
student@t2:~/diya$ wc -L tesst.txt
7 tesst.txt
```

3. `more [filename]`: command is used to view the text file in the command prompt, display one screen at a time.

`$more tes`

Output:

```
student@t2:~$ more tes
One of the 20th century's enduring works, One Hundred Years of Solitude is a widely beloved and acclaimed novel known throughout the world, and the ultimate achievement in a Nobel Prize-winning career. The novel tells the story of the rise and fall of the mythical town of Macondo through the history of the Buendia family. It is a rich and brilliant chronicle of life and death, and the tragicomedy of humankind. In the noble, ridiculous, beautiful, and tawdry story of the Buendia family, one sees all of humanity, just as in the history, myths, growth, and decay of Macondo, one sees all of Latin America. Love and lust, war and revolution, riches and poverty, youth and senility – the variety of life, the endlessness of death, the search for peace and truth – these universal themes dominate the novel. Whether he is describing an affair of passion or the voracity of capitalism and the corruption of government, Gabriel García Márquez always writes with the simplicity, ease, and purity that are the mark of a master. Alternately reverential and comical, One Hundred Years of Solitude weaves the political, personal, and spiritual to bring a new consciousness to storytelling. Translated into dozens of languages, this stunning work is no less than an accounting of the history of the human race.
One of the 20th century's enduring works, One Hundred Years of Solitude is a widely beloved and acclaimed novel known throughout the world, and the ultimate achievement in a Nobel Prize-winning career. The novel tells the story of the rise and fall of the mythical town of Macondo through the history of the Buendia family. It is a rich and brilliant chronicle of life and death, and the tragicomedy of humankind. In the noble, ridiculous, beautiful, and tawdry story of the Buendia family, one sees all of humanity, just as in the history, myths, growth, and decay of Macondo, one sees all of Latin America. Love and lust, war and revolution, riches and poverty, youth and senility – the variety of life, the endlessness of death, the search for peace and truth – these universal themes dominate the novel. Whether he is describing an affair of passion or the voracity of capitalism and the corruption of government, Gabriel García Márquez always writes with the simplicity, ease, and purity that are the mark of a master. Alternately reverential and comical, One Hundred Years of Solitude weaves the political, personal, and spiritual to bring a new consciousness to storytelling. Translated into dozens of languages, this stunning work is no less than an accounting of the history of the human race.
```

- i. `more [-num] [filename]`: display the text after the specified number of lines.

`$more -10 tes`

Output:

```
student@t2:~$ more -10 tes
One of the 20th century's enduring works, One Hundred Years of Solitude is a widely beloved and acclaimed novel known throughout the world, and the ultimate achievement in a Nobel Prize-winning career. The novel tells the story of the rise and fall of the mythical town of Macondo through the history of the Buendia family. It is a rich and brilliant chronicle of life and death, and the tragicomedy of humankind. In the noble, ridiculous, beautiful, and tawdry story of the Buendia family, one sees all of humanity, just as in the history, myths, growth, and decay of Macondo, one sees all of Latin America. Love and lust, war and revolution, riches and poverty, youth and senility – the variety of life, the endlessness of death, the search for peace and truth – these universal themes dominate the novel. Whether he is describing an affair of passion or the voracity of capitalism and the corruption of government, Gabriel García Márquez always writes with the simplicity, ease, and purity that are the mark of a master. Alternately reverential and comical, One Hundred Years of Solitude weaves the political, personal, and spiritual to bring a new consciousness to storytelling. Translated into dozens of languages, this stunning work is no less than an accounting of the history of the human race.
--More--(8%)
```

- ii. `more -d [filename]`: it display “[press space to continue, ‘q’ to quit]”.

`$more -d tes`

Output:

```
One of the 20th century's enduring works, One Hundred Years of Solitude is a widely beloved and acclaimed novel known throughout the world, and the ultimate achievement in a Nobel Prize-winning career. The novel tells the story of the rise and fall of the mythical town of Macondo through the history of the Buendia family. It is a rich and brilliant chronicle of life and death, and the tragicomedy of humankind. In the noble, ridiculous, beautiful, and tawdry story of the Buendia family, one sees all of humanity, just as in the history, myths, growth, and decay of Macondo, one sees all of Latin America. Love and lust, war and revolution, riches and poverty, youth and senility – the variety of life, the endlessness of death, the search for peace and truth – these universal themes dominate the novel. Whether he is describing an affair of passion or the voracity of capitalism and the corruption of government, Gabriel García Márquez always writes with the simplicity, ease, and purity that are the mark of a master. Alternately reverential and comical, One Hundred Years of Solitude weaves the political, personal, and spiritual to bring a new consciousness to storytelling. Translated into dozens of languages, this stunning work is no less than an accounting of the history of the human race.
--More--(31%)[Press space to continue, 'q' to quit.]
```

- iii. `more [+/-pattern] [filename]`: used to search the string inside your text.

`$more +/one tes`

Output:

```
student@t2:~$ more +/one tes
One of the 20th century's enduring works, One Hundred Years of Solitude is a widely beloved and acclaimed novel known throughout the world, and the ultimate achievement in a Nobel Prize-winning career. The novel tells the story of the rise and fall of the mythical town of Macondo through the history of the Buendia family. It is a rich and brilliant chronicle of life and death, and the tragicomedy of humankind. In the noble, ridiculous, beautiful, and tawdry story of the Buendia family, one sees all of humanity, just as in the history, myths, growth, and decay of Macondo, one sees all of Latin America. Love and lust, war and revolution, riches and poverty, youth and senility – the variety of life, the endlessness of death, the search for peace and truth – these universal themes dominate the novel. Whether he is describing an affair of passion or the voracity of capitalism and the corruption of government, Gabriel García Márquez always writes with the simplicity, ease, and purity that are the mark of a master. Alternately reverential and comical, One Hundred Years of Solitude weaves the political, personal, and spiritual to bring a new consciousness to storytelling. Translated into dozens of languages, this stunning work is no less than an accounting of the history of the human race.
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```

5. less [filename]: used to read the contents of a text file one page at a time.

\$less tes

Output:

less options:

- I. ctrl +f: forward one window
- II. ctrl +d: forward half window
- III. ctrl +b: backward one window
- IV. ctrl +u: backward half window
- V. ctrl +j: one line forward
- VI. ctrl +k: one line forward

Result:

The program was executed and the result was successfully obtained. Thus, CO₂ was obtained