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## Experiment No.: 5

### Aim

Familiarisation of Linux Commands

### CO2

Perform System Administration tasks

### Procedure

1) read – To read the content of the line, we use read command. This line read the command into a variable

a) read

```
mca@t2:~$ read
computer network and system administration
mca@t2:~$ echo $REPLY
```

b) read variable1 variable2 variable3 -Declare variables to store data

```
mca@t2:~$ read var1 var2 var3
computer networking and system administration
```

```
mca@t2:~$ echo "[$var1][$var2][$var3]"
[computer][networking][and system administration]
```

c) To read contents through multiple lines we use"\n" at the end of each line.

```
mca@t2:~$ read
computer \
> networking and \
> system \
> administration
mca@t2:~$ echo $REPLY
computer networking and system administration
```

c) read -p "[Prompt message]" -Prompt user to enter data

```
mca@t2:~$ read -p "ENTER YOUR NAME"
ENTER YOUR NAME TINU
mca@t2:~$ echo "My name is $REPLY"
My name is TINU
```

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d)read -n limit -p - Specifies the limit

```
mca@t2:~$ read -n 7 -p "Enter 6 characters only"
Enter 6 characters only Emmanmca@t2:~$
```

e)read -s -p - it gives the security(hides the data)

```
mca@t2:~$ read -s -p "Enter the password"
Enter the passwordmca@t2:~$ echo "Password is $REPLY"
Password is 112325
```

2)wc -To display number of lines, number of words, number of bytes, filename

a)wc filename

```
mca@t2:~$ cat > profile
My name is TINU
Student of Amal Jyothi College of Engineering
Koovappally
Kottayam
^Z
[1]+  Stopped                  cat > profile
mca@t2:~$ wc profile
 4 13 83 profile
```

b) wc -l filename

```
mca@t2:~$ wc -l profile
4 profile
```

c) wc -m filename

```
mca@t2:~$ wc -m profile
83 profile
```

d) wc -c filename

```
mca@t2:~$ wc -c profile
83 profile
```

e)wc -w filename

```
mca@t2:~$ wc -w profile
13 profile
```

f)wc -L filename – Print the length of the longest line

```
mca@t2:~$ wc -L profile
45 profile
```

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3)more - The more command is similar to cat command to display the content. The only difference is that in case of larger files cat command output will scroll of your screen while more command display output one screenful at a time.

a)more filename.txt

```
student@t2:~$ more corona.txt

Tasks
Analyses, develops, interprets and evaluates complex system design and architecture specifications, data models and diagrams in the development, configuration and integration of computer systems.

Researches, analyses, evaluates and monitors network infrastructure to ensure networks are configured to operate at optimal performance.

Assesses and recommends improvements to network operations and integrated hardware, software, communications and operating systems.

Computer Network and Systems Engineers plan, develop, deploy, test and optimise network and system services, taking responsibility for configuration and integration of computer systems.
--More--(52%)
```

b)more +[number] filename.txt

```
student@t2:~$ more +20 corona.txt

A bachelor or postgraduate degree in a related information technology field (such as computer science, network engineering or computer systems engineering) is usually needed to work as a Computer Network and Systems Engineer. Some workers have Vocational Education and Training (VET) qualifications. There are also a wide range of vendor and industry certifications available that may substitute for formal qualifications.

Tasks
--More--(91%)
```

c)more +/ [word] [filename.txt] - This option is used to search the string inside your text document. We can view all the instances by navigating through the result.

```
student@t2:~$ more +/Human corona.txt

...skipping
as not realized at the time that these three different viruses were related.[20][12]

Human coronaviruses were discovered in the 1960s[21][22] using two different methods in the United Kingdom and the United States.[23] E.C. Kendall, Malcolm By
```

d)more -d filename.txt – Helps the user to navigate according to the instruction.”Space key” to continue and “q” to quit.

```
student@t2:~$ more -d corona.txt

Researches, analyses, evaluates and monitors network infrastructure to ensure networks are configured to operate at optimal performance.

Assesses and recommends improvements to network operations and integrated hardware, software, communications and operating systems.

Computer Network and Systems Engineers plan, develop, deploy, test and optimise network and system services, taking responsibility for configuration and integration of computer systems.
--More--(52%)[Press space to continue, 'q' to quit.]
```

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### **Result**

The program was executed and the result was successfully obtained. Thus CO<sub>2</sub> was obtained.

**Experiment No.: 4**

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## Aim

Familiarisation of Linux Commands

## CO2

Perform System Administration tasks

## Procedure

\$cut -b1 filename

```
student@t2:~/riya$ cut -b1 marvel1
I
C
T
L
```

\$cut -c3 filename

```
student@t2:~/riya$ cut -c3 marvel1
o
p
a
k
```

\$

```
student@t2:~/riya$ cut -d ' ' -f1 mark1
English
Maths
Hindi
IT
student@t2:~/riya$ cut -d ' ' -f2 mark1
34
66
88
99
```

## Result

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

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