# *Basic Linux Commands Assignments Part-03*


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## Playing with files

### 1. Create a file like nano file1.txt

```
sakib@bangbang:~/VirtualBox VMs/Vagrant/CentOS7$ vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Checking if box 'centos/7' version '2004.01' is up to date...
==> default: Machine already provisioned. Run `vagrant provision` or use the `--provision`
==> default: flag to force provisioning. Provisioners marked to run always will still run.
sakib@bangbang:~/VirtualBox VMs/Vagrant/CentOS7$ vagrant up --provision
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Checking if box 'centos/7' version '2004.01' is up to date...
sakib@bangbang:~/VirtualBox VMs/Vagrant/CentOS7$ vagrant ssh
Last login: Sun Jun  4 17:00:54 2023 from 10.0.2.2
[vagrant@localhost ~]$
[vagrant@localhost ~]$
```

```
[vagrant@localhost ~]$ whoami
vagrant
[vagrant@localhost ~]$ pwd
/home/vagrant
[vagrant@localhost ~]$ mkdir Assignment_3
[vagrant@localhost ~]$ cd Assignment_3/
[vagrant@localhost Assignment_3]$ nano file1.txt
-bash: nano: command not found
[vagrant@localhost Assignment_3]$ nano file1.txt
-bash: nano: command not found
[vagrant@localhost Assignment_3]$ yum install nano
Loaded plugins: fastestmirror
You need to be root to perform this command.
[vagrant@localhost Assignment_3]$ sudo yum install nano
Loaded plugins: fastestmirror
Determining fastest mirrors
 * base: mirror.xeonbd.com
 * extras: mirror.xeonbd.com
 * updates: mirror.xeonbd.com
base                                                     | 3.6 kB     00:00
extras                                                   | 2.9 kB     00:00
updates                                                  | 2.9 kB     00:00
(1/4): base/7/x86_64/group_gz                              | 153 kB   00:00
(2/4): extras/7/x86_64/primary_db                          | 249 kB   00:01
(3/4): base/7/x86_64/primary_db                            | 6.1 MB   00:09
(4/4): updates/7/x86_64/primary_db                         |  21 MB   00:16
Resolving Dependencies
--> Running transaction check
---> Package nano.x86_64 0:2.3.1-10.el7 will be installed
--> Finished Dependency Resolution
```

```
[vagrant@localhost Assignment_3]$ nano --version
 GNU nano version 2.3.1 (compiled 04:47:52, Jun 10 2014)
 (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007,
 2008, 2009 Free Software Foundation, Inc.
 Email: nano@nano-editor.org    Web: http://www.nano-editor.org/
 Compiled options: --enable-color --enable-extra --enable-multibuffer --enable
-nanorc --enable-utf8
[vagrant@localhost Assignment_3]$ _
```

```
[vagrant@localhost Assignment_3]$ nano file1.txt
[vagrant@localhost Assignment_3]$ ls -l
total 4
-rw-rw-r--. 1 vagrant vagrant 142 Jun 10 08:51 file1.txt
[vagrant@localhost Assignment_3]$ cat file1.txt
Hello! This is Sakib. This is my assignment-3 about linux.
Here I have created a file named file1.txt and open this using
--->nano file1.txt
[vagrant@localhost Assignment_3]$ _
```

```
  GNU nano 2.3.1            File: file1.txt

Hello! This is Sakib. This is my assignment-3 about linux.
Here I have created a file named file1.txt and open this using
--->nano file1.txt
```

**2) Now we will copy date from file1 to new file2**

o cp file1.txt file2.txt

o Then see the output of file2.txt, cat file2.txt

o Give screenshot

```
[vagrant@localhost Assignment_3]$ cp file1.txt file2.txt
[vagrant@localhost Assignment_3]$ ls -l
total 8
-rw-rw-r--. 1 vagrant vagrant 142 Jun 10 08:51 file1.txt
-rw-rw-r--. 1 vagrant vagrant 142 Jun 10 08:53 file2.txt
[vagrant@localhost Assignment_3]$ cat file2.txt
Hello! This is Sakib. This is my assignment-3 about linux.
Here I have created a file named file1.txt and open this using
--->nano file1.txt
[vagrant@localhost Assignment_3]$ _
```

### 3. Now we will move the file2.txt to new folder /home

o mv file2.txt /home

o Then go to home directory and check ls, file exits or not?

o Given screenshot

```
[vagrant@localhost Assignment_3]$ mv file2.txt /home
mv: cannot move ‘file2.txt’ to ‘/home/file2.txt’: Permission denied
[vagrant@localhost Assignment_3]$ sudo mv file2.txt /home
[vagrant@localhost Assignment_3]$ cd ~
[vagrant@localhost ~]$ ls -l
total 0
drwxrwxr-x. 2 vagrant vagrant 23 Jun 10 08:54 Assignment_3
[vagrant@localhost ~]$ cd /home/
[vagrant@localhost home]$ ls -l
total 4
-rw-rw-r--. 1 vagrant vagrant 142 Jun 10 08:53 file2.txt
drwx------. 4 vagrant vagrant 115 Jun 10 08:47 vagrant
[vagrant@localhost home]$ echo "The file exixts in the /home dir"
The file exixts in the /home dir
[vagrant@localhost home]$ _
```

### 4. Then we create a new file3.txt and file4.txt in home directory and add content in it.

```
[vagrant@localhost home]$ sudo touch file{3..4}.txt
[vagrant@localhost home]$ ls -l
total 0
-rw-r--r--. 1 root    root     0 Jun 10 09:43 file3.txt
-rw-r--r--. 1 root    root     0 Jun 10 09:43 file4.txt
drwx------. 3 vagrant vagrant 95 Jun 10 09:43 vagrant
[vagrant@localhost home]$ echo " file3.txt and file4.txt has been created"
 file3.txt and file4.txt has been created
[vagrant@localhost home]$ _
```

o Now do echo “Hello I am newline” > file3.txt and provide the output of file3.txt

```
[vagrant@localhost home]$ cat file3.txt
Hello! I am file3.txt
[vagrant@localhost home]$ echo "Hello I am newline" > file3.txt
[vagrant@localhost home]$ cat file3.txt
Hello I am newline
[vagrant@localhost home]$ echo " The previous content will be removed > becaus
e of > redirection "
 The previous content will be removed > because of > redirection
[vagrant@localhost home]$ _
```

o Now do echo “Hello I am newline” >> file4.txt and provide the output of file4.txt

```
[vagrant@localhost home]$ cat file4.txt
Hello! I am file4.txt
[vagrant@localhost home]$ echo "Hello I am newline" >> file4.txt
[vagrant@localhost home]$ cat file4.txt
Hello! I am file4.txt
Hello I am newline
[vagrant@localhost home]$ echo " The previous content will not be removed , be
cause of >> redirection will append newline after the previous content "
 The previous content will not be removed , because of >> redirection will app
end newline after the previous content
[vagrant@localhost home]$ _
```

o Tell the different between both step you follow and the reason behind it

**echo “Hello I am newline” > file3.txt**
The previous content will be removed > because of > redirection

**echo “Hello I am newline” >> file4.txt**
The previous content will not be removed , because of >> redirection will append newline after the previous content in file4.txt.

## 5. For remove a file or directory you can use the below two commands

**o To delete a file – rm <any_filename>**

```
[vagrant@localhost home]$ rm *.txt
rm: cannot remove ‘file2.txt’: Permission denied
rm: cannot remove ‘file3.txt’: Permission denied
rm: cannot remove ‘file4.txt’: Permission denied
[vagrant@localhost home]$ sudo rm *.txt
[vagrant@localhost home]$ ls -l
total 0
drwx------. 4 vagrant vagrant 115 Jun 10 08:47 vagrant
[vagrant@localhost home]$ echo " All the files are deleted using the rm and by
 the help of wildcards"
 All the files are deleted using the rm and by the help of wildcards
[vagrant@localhost home]$ _
```

**o To delete a directory - rmdir <any_directoryname>**

```
[vagrant@localhost ~]$ cd ~
[vagrant@localhost ~]$ pwd
/home/vagrant
[vagrant@localhost ~]$ ls -l
total 0
drwxrwxr-x. 2 vagrant vagrant 23 Jun 10 08:54 Assignment_3
[vagrant@localhost ~]$ sudo rmdir Assignment_3/ -v
rmdir: removing directory, ‘Assignment_3/’
rmdir: failed to remove ‘Assignment_3/’: Directory not empty
[vagrant@localhost ~]$ echo "This can be removed using rm -r command"
This can be removed using rm -r command
[vagrant@localhost ~]$ sudo rm -r Assignment_3/
[vagrant@localhost ~]$ ls -l
total 0
[vagrant@localhost ~]$ echo "Successfully deleted"
Successfully deleted
[vagrant@localhost ~]$ _
```