

Assignment 2

Part A

What will the following commands

- `echo "Hello, World!"` → this echo is used to print the output on the screen

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ echo "Hello, World!"  
Hello, World!
```

- `name="Productive"` → with the help of using echo command

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ echo name="Productive"  
name=Productive
```

- `touch file.txt` → to used to create the file on linux

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ touch file.txt  
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ touch file2.txt  
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ touch file3.txt  
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ touch file4.txt  
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -l  
total 0  
-rw-r--r-- 1 cdac cdac 0 Aug 30 19:50 file.txt  
-rw-r--r-- 1 cdac cdac 0 Aug 30 19:50 file2.txt  
-rw-r--r-- 1 cdac cdac 0 Aug 30 19:51 file3.txt  
-rw-r--r-- 1 cdac cdac 0 Aug 30 19:51 file4.txt  
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -l  
file.txt  
file2.txt  
file3.txt  
file4.txt
```

- `ls -a` → to print list of all files in the directory

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -a  
.. file.txt file2.txt file3.txt file4.txt  
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```

- `rm file.txt` → to remove the file

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -a
.  ..  file.txt  file2.txt  file3.txt  file4.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ rm file.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -a
.  ..  file2.txt  file3.txt  file4.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```

- `cp file1.txt file2.txt` → to copy the contents of a file on one file to another file

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ nano file2.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cat file2.txt
hii
good morning
see you
welcome
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cp file2.txt file3.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cat file3.txt
hii
good morning
see you
welcome
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```

- `mv file.txt /path/to/directory/` → to move the files on to the directory

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ mv file2.txt ass
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -l
total 12
drwxr-xr-x 2 cdac cdac 4096 Aug 30 20:15 ass
drwxr-xr-x 2 cdac cdac 4096 Aug 30 20:13 ass2
-rw-r--r-- 1 cdac cdac 34 Aug 30 20:11 file3.txt
-rw-r--r-- 1 cdac cdac 0 Aug 30 19:51 file4.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cd ass
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2/ass$ ls -l
total 4
-rw-r--r-- 1 cdac cdac 34 Aug 30 20:10 file2.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2/ass$
```

- `chmod 755 script.sh` → to give all the user permissions of a file

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ nano script
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ bash script
enter n
5
equal to 5
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ chmod 755 script.sh
chmod: cannot access 'script.sh': No such file or directory
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ chmod 755 script
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -l
total 12
drwxr-xr-x 2 cdac cdac 4096 Aug 30 20:15 ass
-rw-r--r-- 1 cdac cdac 34 Aug 30 20:11 file3.txt
-rw-r--r-- 1 cdac cdac 0 Aug 30 19:51 file4.txt
-rwxr-xr-x 1 cdac cdac 87 Aug 30 20:35 script
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```

- `grep "pattern" file.txt` → to find the word on a file

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ grep good file3.txt
good morning
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ grep "good" file3.txt
good morning
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```

- kill PID → to kill the specific server

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ kii -9 www.google.com
Command 'kii' not found, did you mean:
  command 'kig' from snap kig (23.08.3)
  command 'kif' from snap kif (0.2.0)
  command 'ii' from deb ii (1.8-3+ds)
  command 'kig' from deb kig (4:21.12.3-0ubuntu1)
  command 'kic' from deb kic (2.4c-1)
See 'snap info <snapname>' for additional versions.
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```

- mkdir mydir && cd mydir && touch file.txt && echo "Hello,World!" > file.txt && cat file.txt → here, in one to to make a directory then go to the directory after that create the file then write the contents on that file after that to see the output contents of a file

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ mkdir OSS && cd OSS && touch file11.txt && echo "Hello, World!" > file11.txt && cat file11.txt
Hello, World!
```

- ls -l | grep ".txt" → to find the all contents of the directory

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -l | grep ".txt"
-rw-r--r-- 1 cdac cdac  34 Aug 30 20:11 file3.txt
-rw-r--r-- 1 cdac cdac   0 Aug 30 19:51 file4.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```

- cat file1.txt file2.txt | sort | uniq → to sort the unique contents of both file

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cat file3.txt file4.txt | sort | uniq
good morning
hii
see you
welcome
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```

- `ls -l | grep "^d"` → to list out the directories in the current directory

```
welcome
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -l | grep "^d"
drwxr-xr-x 2 cdac cdac 4096 Aug 30 21:01 OSS
drwxr-xr-x 2 cdac cdac 4096 Aug 30 20:15 ass
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```

- `grep -r "pattern" /path/to/directory/` → to use the search the word in specific directory

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ nano file5.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ^C
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ mv file5.txt DSS
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ grep -r HIII DSS
DSS/file5.txt:HIII
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```

- `cat file1.txt file2.txt | sort | uniq -d` → to sort the the unique word in a file

```

cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cat file3.txt file4.txt | sort | uniq -d
hii
kharghar
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ nano file3.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ nano file4.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ^C
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cat file3.txt file4.txt | sort | uniq -d
hii
kharghar
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cat file3.txt
my name is shraddha sakhare
my name
i am cdac kharghar
kharghar
hii
good morning
see you
welcome

cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cat file4.txt
hii
my name is shraddha sakhare
i am cdac kharghar
kharghar
hii
good night

cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$

```

- `chmod 644 file.txt` → to see the default permissions of a file

```

cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ chmod 644 file3.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -l
total 24
drwxr-xr-x 2 cdac cdac 4096 Aug 30 21:53 DSS
drwxr-xr-x 2 cdac cdac 4096 Aug 30 21:01 OSS
drwxr-xr-x 2 cdac cdac 4096 Aug 30 20:15 ass
-rw-r--r-- 1 cdac cdac 100 Aug 30 21:56 file3.txt
-rw-r--r-- 1 cdac cdac 79 Aug 30 21:57 file4.txt
-rwxr-xr-x 1 cdac cdac 87 Aug 30 20:35 script
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ chmod 755 file3.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -l
total 24
drwxr-xr-x 2 cdac cdac 4096 Aug 30 21:53 DSS
drwxr-xr-x 2 cdac cdac 4096 Aug 30 21:01 OSS
drwxr-xr-x 2 cdac cdac 4096 Aug 30 20:15 ass
-rwxr-xr-x 1 cdac cdac 100 Aug 30 21:56 file3.txt
-rw-r--r-- 1 cdac cdac 79 Aug 30 21:57 file4.txt
-rwxr-xr-x 1 cdac cdac 87 Aug 30 20:35 script
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ chmod 644 file3.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -*l
ls: invalid option -- '*'
Try 'ls --help' for more information.
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -l
total 24
drwxr-xr-x 2 cdac cdac 4096 Aug 30 21:53 DSS
drwxr-xr-x 2 cdac cdac 4096 Aug 30 21:01 OSS
drwxr-xr-x 2 cdac cdac 4096 Aug 30 20:15 ass
-rw-r--r-- 1 cdac cdac 100 Aug 30 21:56 file3.txt
-rw-r--r-- 1 cdac cdac 79 Aug 30 21:57 file4.txt
-rwxr-xr-x 1 cdac cdac 87 Aug 30 20:35 script
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$

```

- `cp -r source_directory destination_directory` → to copy the contents of a source file to destination file

```

cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cp -r file3.txt file4.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls-l
ls-l: command not found
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls
DSS  OSS  ass  file3.txt  file4.txt  script
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cat file4.txt
my name is shraddha sakhare
my name
i am cdac kharghar
kharghar
hii
good morning
see you
wlcome

cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ cat file3.txt
my name is shraddha sakhare
my name
i am cdac kharghar
kharghar
hii
good morning
see you
wlcome

cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$

```

- find /path/to/search -name "*.txt" → to find the path of a specific extensions

```

cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ find -name "*.txt"
./ass/file2.txt
./file3.txt
./OSS/file11.txt
./file4.txt
./DSS/file5.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$

```

- chmod u+x file.txt → to give the execute permission of a owner


```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ chmod u+x file4.txt
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ ls -l
total 24
drwxr-xr-x 2 cdac cdac 4096 Aug 30 21:53 DSS
drwxr-xr-x 2 cdac cdac 4096 Aug 30 21:01 OSS
drwxr-xr-x 2 cdac cdac 4096 Aug 30 20:15 ass
-rw-r--r-- 1 cdac cdac 100 Aug 30 21:56 file3.txt
-rwxr--r-- 1 cdac cdac 100 Aug 31 00:12 file4.txt
-rwxr-xr-x 1 cdac cdac 87 Aug 30 20:35 script
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```

- echo \$PATH → to see the all the paths in bash

```
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$ echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/usr/lib/wsl/lib:/mnt/c/Program Files/WindowsApps/CanonicalGroupLimited.Ubuntu_2204.3.49.0_x64__79rhkp1fndgsc:/mnt/c/Program Files/Common Files/Oracle/Java/javapath:/mnt/c/Windows/system32:/mnt/c/Windows:/mnt/c/Windows/System32/Wbem:/mnt/c/Windows/System32/WindowsPowerShell/v1.0:/mnt/c/Windows/System32/OpenSSH:/mnt/c/MinGW/bin:/mnt/c/Program Files/Git/cmd:/mnt/c/Program Files (x86)/dotnet:/mnt/c/Program Files/dotnet:/mnt/c/Program Files/Java/jdk-17/bin:/mnt/c/Users/User/AppData/Local/Microsoft/WindowsApps:/snap/bin
cdac@DESKTOP-7A08I9B:~/LinuxAssignment2$
```