

Assignment 2 Module1

1.echo "Hello, World!"

```
base login: 11 Aug 00 24:00:00 on tty000
(base) vaibhavghangale@VAIBHAVs-MacBook-Air ~ % mkdir assign2
(base) vaibhavghangale@VAIBHAVs-MacBook-Air ~ % cd assign2
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo "hellow, world"
hellow, world
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 %
```

2. name="Productive"

```
base login: 11 Aug 00 24:00:00 on tty000
(base) vaibhavghangale@VAIBHAVs-MacBook-Air ~ % mkdir assign2
(base) vaibhavghangale@VAIBHAVs-MacBook-Air ~ % cd assign2
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo "hellow, world"
hellow, world
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % name = "prouductive"
zsh: command not found: name
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo name="Productive"
name=Productive
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo name = "Productive"
name = Productive
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % name="Productive"
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo $name
Productive
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 %
```

3. touch file.txt

to make a new file which is named file.txt

4. ls -a

```
vaibhavghangale@VAIBHAVs-MacBook-Air ~ % mkdir assign2
(vaibhavghangale@VAIBHAVs-MacBook-Air ~ % cd assign2
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo "hellow, world"
hellow, world
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % name = "prouductive"
zsh: command not found: name
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo name="Productive"
name=Productive
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo name = "Productive"
name = Productive
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % name="Productive"
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo $name
Productive
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % touch file.txt
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls assign2
ls: assign2: No such file or directory
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls
file.txt
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls -a
.
..
file.txt
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 %
```

5 . rm file.txt

to delete the file name file.txt

6. cp file1.txt file2.txt

to copy the command from file1 to file 2

```
vaibhavghangale@VAIBHAVs-MacBook-Air ~ % mkdir assign2
(vaibhavghangale@VAIBHAVs-MacBook-Air ~ % cd assign2
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo "hellow, world"
hellow, world
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % name = "prouductive"
zsh: command not found: name
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo name="Productive"
name=Productive
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo name = "Productive"
name = Productive
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % name="Productive"
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo $name
Productive
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % touch file.txt
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls assign2
ls: assign2: No such file or directory
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls
file.txt
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls -a
.
..
file.txt
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % rm file.txt
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % nano file1.txt
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % touch file2.txt
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cat file1.txt
abcd in file 1
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cp file1.txt file2.txt
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cat file2.txt
abcd in file 1
(vaibhavghangale@VAIBHAVs-MacBook-Air assign2 %
```

7. mv file.txt /path/to/directory/

to move or rename a file(mv file.txt newfile.txt)

```

(base) vaibhavghangale@VAIBHAVs-MacBook-Air ~ % mkdir assign2
(base) vaibhavghangale@VAIBHAVs-MacBook-Air ~ % cd assign2
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo "hello, world"
hello, world
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % name = "productive"
zsh: command not found: name
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo name="Productive"
name=Productive
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo name = "Productive"
name = Productive
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % name="Productive"
Productive
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % touch file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls assign2
ls: assign2: No such file or directory
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls
file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls -a
.
..
file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % rm file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % nano file1.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % touch file2.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cat file1.txt
abcd in file 1
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cp file1.txt file2.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cat file2.txt
abcd in file 1
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % mv file1.txt Desktop
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 %

```

8. chmod 755 [script.sh](#)

The chmod command is used to change the permissions of a file in Unix-based systems.

Breakdown of 755 Permissions:

- **7** (Owner): Read (**r**), write (**w**), and execute (**x**) permissions.
- **5** (Group): Read (**r**) and execute (**x**) permissions.
- **5** (Others): Read (**r**) and execute (**x**) permissions.

```

(base) vaibhavghangale@VAIBHAVs-MacBook-Air ~ % mkdir assign2
(base) vaibhavghangale@VAIBHAVs-MacBook-Air ~ % cd assign2
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo "hello, world"
hello, world
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % name = "productive"
zsh: command not found: name
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo name="Productive"
name=Productive
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo name = "Productive"
name = Productive
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % name="Productive"
Productive
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % touch file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls assign2
ls: assign2: No such file or directory
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls
file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls -a
.
..
file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % rm file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % nano file1.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % touch file2.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cat file1.txt
abcd in file 1
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cp file1.txt file2.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cat file2.txt
abcd in file 1
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % mv file1.txt Desktop
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % nano script.sh
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % chmod 755 script.sh
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls -l
total 24
-rw-r--r--  1 vaibhavghangale  staff  15 Aug 30 15:17 Desktop
-rw-r--r--  1 vaibhavghangale  staff  15 Aug 30 15:17 file2.txt
-rwxr-xr-x  1 vaibhavghangale  staff  29 Aug 30 15:32 script.sh
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 %

```

9. grep "pattern" file.txt

to search a pattern in file.txt

```
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % name=Productive
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % echo $name
Productive
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % touch file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls assign2
ls: assign2: No such file or directory
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls
file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls -a
.
..
file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % rm file.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % nano file1.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % touch file2.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cat file1.txt
abcd in file 1
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cp file1.txt file2.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cat file2.txt
abcd in file 1
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % mv file1.txt Desktop
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % nano script.sh
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % chmod 755 script.sh
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls -l
total 24
-rw-r--r--  1 vaibhavghangale  staff   15 Aug 30 15:17 Desktop
-rw-r--r--  1 vaibhavghangale  staff   15 Aug 30 15:17 file2.txt
-rwxr-xr-x  1 vaibhavghangale  staff   29 Aug 30 15:32 script.sh
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % cat file1.txt
cat: file1.txt: No such file or directory
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % ls
Desktop      file2.txt    script.sh
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % nano file1.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % grep "abc" file1.txt
abc def ghi jkl mno pqr sty uvw xyz
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % nano file1.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % grep "def" file.txt
grep: file.txt: No such file or directory
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % grep "abc" file1.txt
abc
(base) vaibhavghangale@VAIBHAVs-MacBook-Air assign2 % grep "def" file1.txt
```

10. kill PID

To kill a process with a specific Process ID (PID), you use the command:

11. mkdir mydir && cd mydir && touch file.txt && echo "Hello, World!" > file.txt && cat file.txt

```
(base) vaibhavghangale@VAIBHAVs-MacBook-Air ~ % mkdir mydir && cd mydir && touch file.txt && echo "Hello, World!" > file.txt && cat file.txt
cmdand cmdand cmdand dquote>
```

12. ls -l | grep ".txt"

list the file with txt extension

```

(base) vaibhavghangale@VAIBHAVs-MacBook-Air shell % bash p10
Enter a number: 5
Fibonacci sequence up to 5:
0 1 1 2 3 5
(base) vaibhavghangale@VAIBHAVs-MacBook-Air shell % ls -l | grep ".txt"
(base) vaibhavghangale@VAIBHAVs-MacBook-Air shell % ls -l
total 56
-rw-r--r--  1 vaibhavghangale  staff   97 Aug 31 09:59 p1
-rw-r--r--  1 vaibhavghangale  staff  184 Aug 31 15:43 p10
-rw-r--r--  1 vaibhavghangale  staff   68 Aug 31 10:21 p2
-rw-r--r--  1 vaibhavghangale  staff   55 Aug 31 10:32 p3
-rw-r--r--  1 vaibhavghangale  staff   84 Aug 31 12:48 p7
-rw-r--r--  1 vaibhavghangale  staff   30 Aug 31 12:51 p8
-rw-r--r--  1 vaibhavghangale  staff  187 Aug 31 15:26 p9
(base) vaibhavghangale@VAIBHAVs-MacBook-Air shell % ls
p1      p10     p2      p3      p7      p8      p9
(base) vaibhavghangale@VAIBHAVs-MacBook-Air shell % touch text1.txt text2.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air shell % ls -l | grep ".txt"
-rw-r--r--  1 vaibhavghangale  staff    0 Aug 31 18:25 text1.txt
-rw-r--r--  1 vaibhavghangale  staff    0 Aug 31 18:25 text2.txt
(base) vaibhavghangale@VAIBHAVs-MacBook-Air shell %

```

13. `cat file1.txt file2.txt | sort | uniq`

concatinate file1 and file2 and pile them to sort and remove duplicate

14. `ls -l | grep "^d"`

filter out only line with starting d . In this case directories which start with d

15. `grep -r "pattern" /path/to/directory/`

to search for a specific string or pattern within all files in a given directory

16 `cat file1.txt file2.txt | sort | uniq -d`

to find and display duplicate lines that appear in the combined contents of two text files.

17 `chmod 644 file.txt`

0 nothing

1 execute x

2 write w

3 w+x

4 read r

5 r+x

6 r+w

7 r+w+x

so 644 means rw-r - - r- -

18. `cp -r source_directory destination_directory`

used to copy a directory and its contents from one location to another

19. `find /path/to/search -name "*.txt"`

to search for files with a specific name pattern within a directory

20. `chmod u+x file.txt`

giving permission to user to execute

21. `echo $PATH`

to show value of PATH

Part B

1. `ls` is used to list files and directories in a directory. TRUE
2. `mv` is used to move files and directories. TRUE
3. `cd` is used to copy files and directories. FALSE (change directory)
4. `pwd` stands for "print working directory" and displays the current directory. TRUE
5. `grep` is used to search for patterns in files. TRUE
6. `chmod 755 file.txt` gives read, write, and execute permissions to the owner, and read and execute permissions to group and others. TRUE
7. `mkdir -p directory1/directory2` creates nested directories, creating directory2 inside directory1 if directory1 does not exist. TRUE
8. `rm -rf file.txt` deletes a file forcefully without confirmation. TRUE

Identify the Incorrect Commands:

1. `chmodx` is used to change file permissions.

INVALID COMMAND (chmod)

2. `cpy` is used to copy files and directories.

INVALID COMMAND (cp)

3. `mkfile` is used to create a new file.

INVALID COMMAND (touch)

4. `catx` is used to concatenate files.

INVALID COMMAND (cat)

5. `rn` is used to rename files.

INVALID COMMAND (`mv`)