Assignment 2

Part A

What will the following commands do?

1.echo "Hello, World!"

Print "Hello, World!"

2. name="Productive"

When we add command echo \$ then name will print

3. touch file.txt

touch command is used for create and update empty txt file.

4. ls –a

This command is used to list all directory and hidden files.

5. rm file.txt

Remove Existing file.

6. cp file1.txt file2.txt

Copy file1 content in file2.

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

Move file.txt pito directory

8. chmod 755 script.sh

Change the permission for read, write, update script shell.

9. grep "pattern" file.txt

Grep command used for specific word in file.txt.

10. kill PID

Terminate Process

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

mkdir for create directory

Touch create file

Echo for diplay content in file

- >: input of one file content is copy as another file
- 12. ls -l | grep ".txt"
- .txt output is get
- | (pipe) is used as input of right side command as output
- 13. cat file1.txt file2.txt | sort | uniq

14.ls -l | grep "^d"

```
      cdac@LAPTOP-FTCDGA7N: ~/mydir$ mkdir directory
      cdac@LAPTOP-FTCDGA7N: ~/mydir$ ls
      directory
      directory
      file.txt file1.txt file2.txt

      cdac@LAPTOP-FTCDGA7N: ~/mydir$ grep "^d"
      ^C
      cdac@LAPTOP-FTCDGA7N: ~/mydir$ ls - l | grep "^d"
      drwxr-xxr-x 2 cdac cdac 4096 Aug 30 21:42 directory

      cdac@LAPTOP-FTCDGA7N: ~/mydir$ |
      Image: Coloudy
      Image: Coloudy</t
```

15. chmod 644 file.txt

```
cdac@LAPTOP-FTCDGA7N:~/mydir$ chmod 644 file.txt
cdac@LAPTOP-FTCDGA7N:~/mydir$ ls -l
total 16
drwxr-xr-x 2 cdac cdac 496 Aug 38 21:42 directory
-rw-r--r-1 cdac cdac 14 Aug 38 15:38 file.txt
-rw-rr-r--1 cdac cdac 19 Aug 38 16:33 file1.txt
-rw-rr--r-1 cdac cdac 29 Aug 38 16:25 file2.txt
cdac@LAPTOP-FTCDGA7N:~/mydir$ |

222C
cdac@LAPTOP-FTCDGA7N:~/mydir$ |

Q Search

Q Search

Q Search
```

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

```
Cdac@LAPTOP-FTCDGA7N:~$ nano file1.txt
cdac@LAPTOP-FTCDGA7N:~$ nano file2.txt | sort | uniq -d

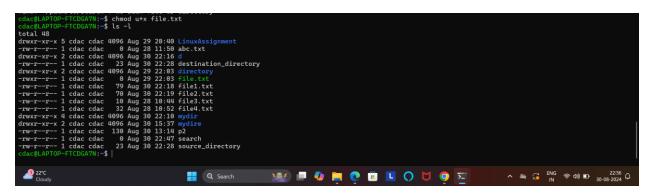
Bye
Hello
Hii
See you
all the best
good day
good luck
good duck
good moring
```

17. cp -r source_directory destination_directory

Copy Source directory content in destination directory

```
cdac@LAPTOP-FTCDGA7N:-$ ls
LinuxAssignment abc.txt d destination_directory directory file.txt file1.txt file2.txt file3.txt file4.txt mydir mydire p2 source_directory
cdac@LAPTOP-FTCDGA7N:-$ cp -r source_directory destination_directory
cdac@LAPTOP-FTCDGA7N:-$ control co
```

18. chmod u+x file.txt



19. echo \$PATH



Part B

Identify True or False:

1. Is 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

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.

False

8. rm -rf file.txt deletes a file forcefully without confirmat

True

Identify the Incorrect Commands:

- 1. chmodx is used to change file permissions.
- 2. cpy is used to copy files and directories. incorrect
- 3. mkfile is used to create a new file. incorrect
- 4. catx is used to concatenate files.
- 5. rn is used to rename files.

Part C

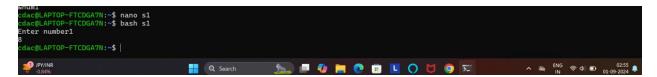
Question 1: Write a shell script that prints "Hello, World!" to the terminal.

```
ecno Hetto Wortd:
:dac@LAPTOP-FTCDGA7N:~$ echo "Hello World!"
Hello World!
:dac@LAPTOP-FTCDGA7N:~$|
```

Question 2: Declare a variable named "name" and assign the value "CDAC Mumbai" to it. Print the value of the variable.

```
cdac@LAPTOP-FTCDGA7N:~$ nano program1.sh
cdac@LAPTOP-FTCDGA7N:~$ bash program1.sh
CDAC Mumbai
cdac@LAPTOP-FTCDGA7N:~$ |
```

Question 3: Write a shell script that takes a number as input from the user and prints it.



Question 4: Write a shell script that performs addition of two numbers (e.g., 5 and 3) and prints the result.

```
      cdac@LAPTOP-FTCDGA7N:~$ nano s1

      cdac@LAPTOP-FTCDGA7N:~$ bash s1

      12

      -2

      35

      0

      cdac@LAPTOP-FTCDGA7N:~$ |

      22°C
      III
      III</td
```

Question 5: Write a shell script that takes a number as input and prints "Even" if it is even, otherwise prints "Odd".

Question 6: Write a shell script that uses a for loop to print numbers from 1 to 5.