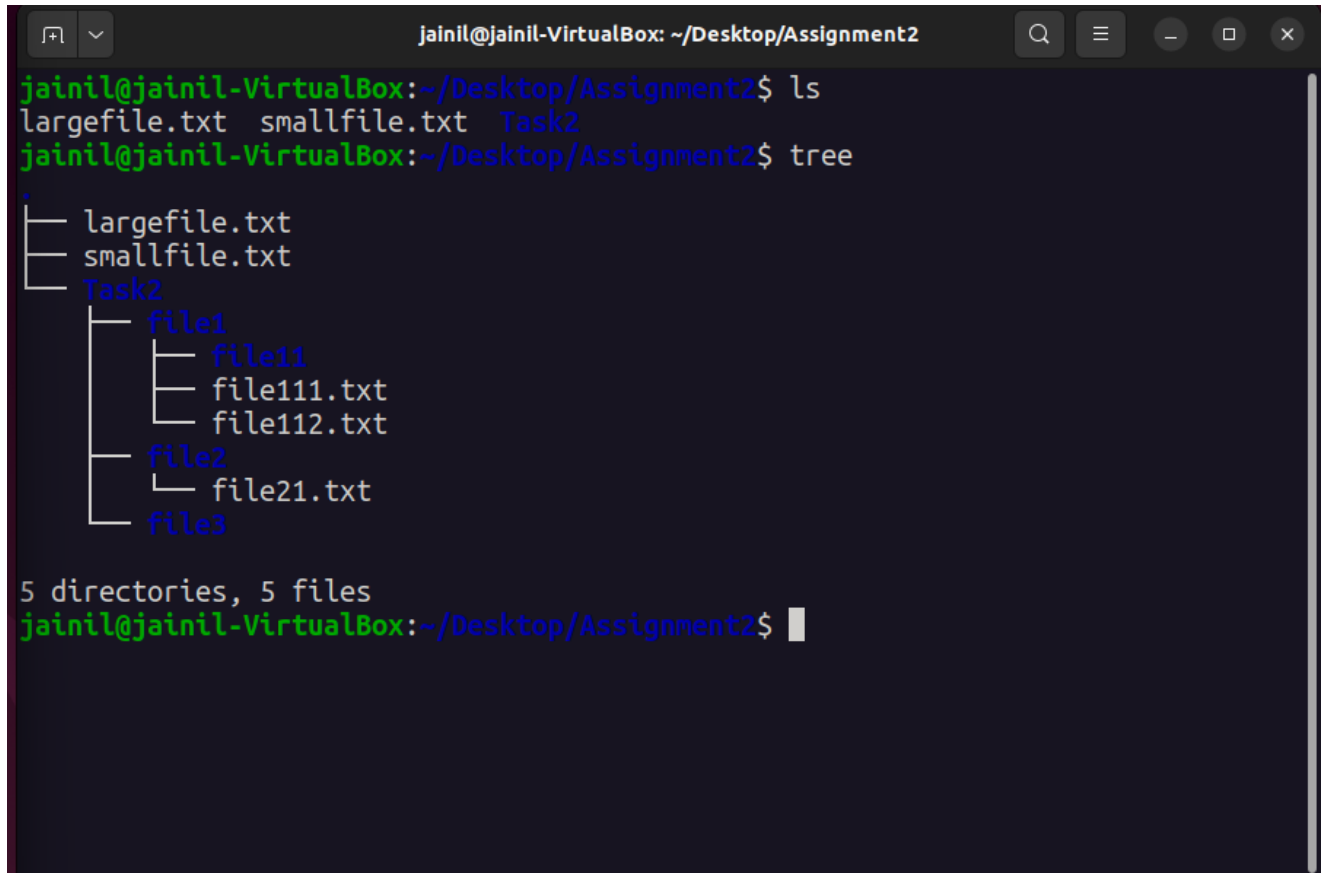


TASK 2

a. Task: Create a backup of a directory - Use the `cp` command to create a backup copy of an entire directory, preserving its structure.

Structure of the directory Assignment2:

A terminal window titled 'jainil@jainil-VirtualBox: ~/Desktop/Assignment2' showing the output of 'ls' and 'tree' commands. The 'ls' command lists 'largefile.txt', 'smallfile.txt', and 'Task2'. The 'tree' command shows a hierarchical structure: 'Task2' contains 'file1' (with sub-files 'file11', 'file111.txt', 'file112.txt'), 'file2' (with sub-file 'file21.txt'), and 'file3'. A summary line states '5 directories, 5 files'.

```
jainil@jainil-VirtualBox: ~/Desktop/Assignment2$ ls
largefile.txt  smallfile.txt  Task2
jainil@jainil-VirtualBox:~/Desktop/Assignment2$ tree
.
├── largefile.txt
├── smallfile.txt
└── Task2
    ├── file1
    │   ├── file11
    │   ├── file111.txt
    │   └── file112.txt
    ├── file2
    │   └── file21.txt
    └── file3

5 directories, 5 files
jainil@jainil-VirtualBox:~/Desktop/Assignment2$
```

To copy the directory and its structure the following command is used:

```
cp -r Assignment2 Assignment2_backup
```

```
jainil@jainil-VirtualBox: ~/Desktop
jainil@jainil-VirtualBox:~/Desktop$ cp -r Assignment2/ Assignment2_backup
jainil@jainil-VirtualBox:~/Desktop$ ls
Assignment2 Assignment2_backup temp.txt
jainil@jainil-VirtualBox:~/Desktop$ tree
.
├── Assignment2
│   ├── largefile.txt
│   ├── smallfile.txt
│   └── Task2
│       ├── file1
│       │   ├── file11
│       │   ├── file111.txt
│       │   └── file112.txt
│       ├── file2
│       │   └── file21.txt
│       └── file3
├── Assignment2_backup
│   ├── largefile.txt
│   ├── smallfile.txt
│   └── Task2
│       ├── file1
│       │   ├── file11
│       │   ├── file111.txt
│       │   └── file112.txt
│       ├── file2
│       │   └── file21.txt
│       └── file3
└── temp.txt

12 directories, 11 files
```

b. Task: Delete files that match a specific pattern - Use the `rm` command with wildcards to delete files that match a certain pattern (e.g., all `.tmp` files in a directory).

e.g., Remove all the txt file from Direc1

Before:

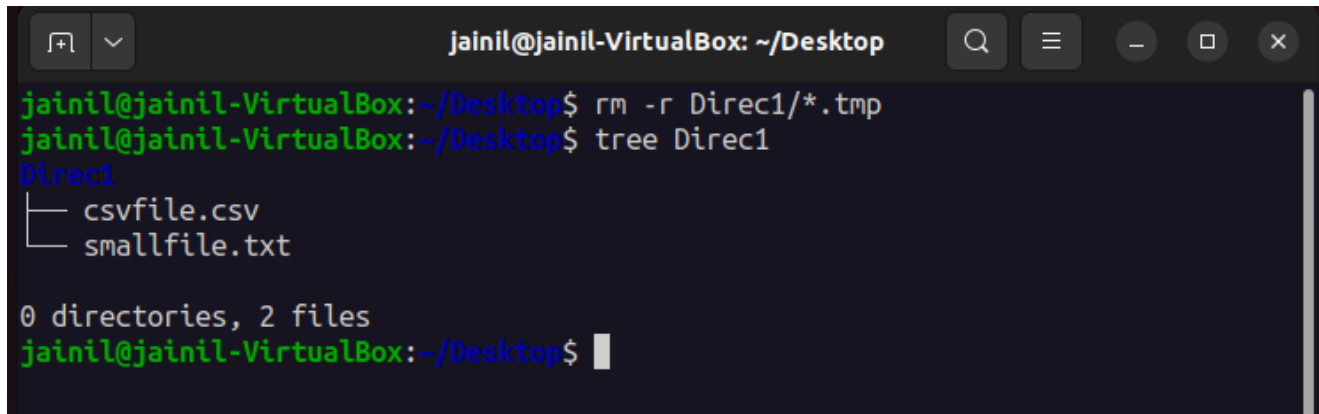
```
jainil@jainil-VirtualBox: ~/Desktop
jainil@jainil-VirtualBox:~/Desktop$ tree ./Direc1
./Direc1
├── backup.tmp
├── csvfile.csv
├── log.tmp
└── smallfile.txt

0 directories, 4 files
jainil@jainil-VirtualBox:~/Desktop$
```

Command to remove all `.tmp` files from Direc1:

```
rm -r Direc1/*.tmp
```

After:

A terminal window titled 'jainil@jainil-VirtualBox: ~/Desktop'. The window has a dark background and standard window controls (minimize, maximize, close) on the right. The terminal shows the following commands and output:

```
jainil@jainil-VirtualBox:~/Desktop$ rm -r Direc1/*.tmp
jainil@jainil-VirtualBox:~/Desktop$ tree Direc1
Direc1
├── csvfile.csv
└── smallfile.txt

0 directories, 2 files
jainil@jainil-VirtualBox:~/Desktop$
```