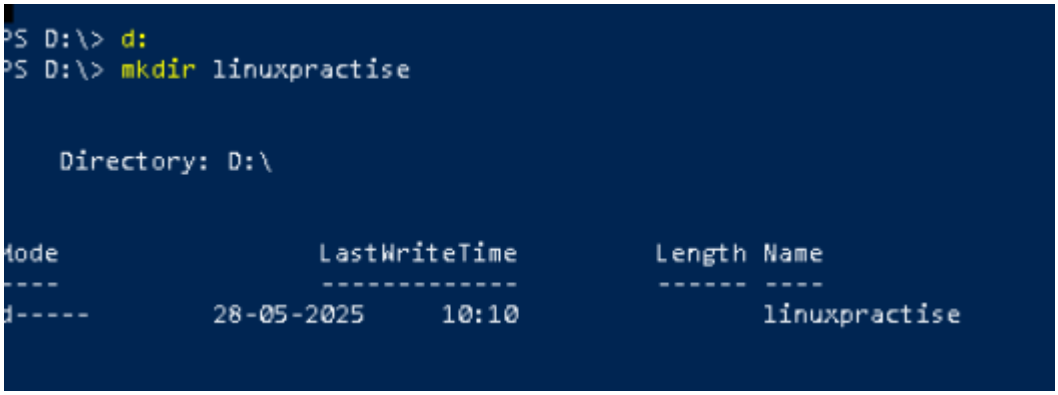
Task 1:

Create a Directory with the Name Linux Practice.

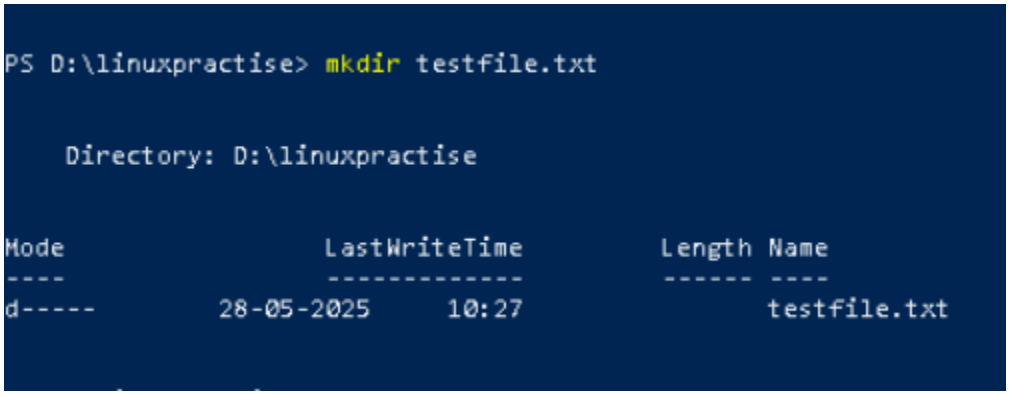


Task2:

Change to the directory

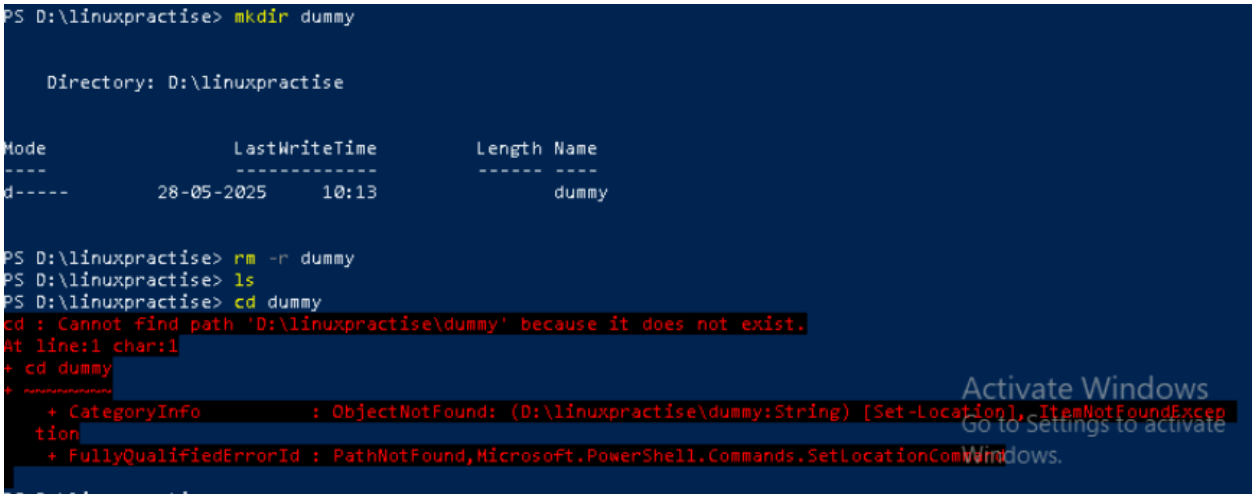
Task 3:

Create a file names TestFile1.txt and add the content to it.



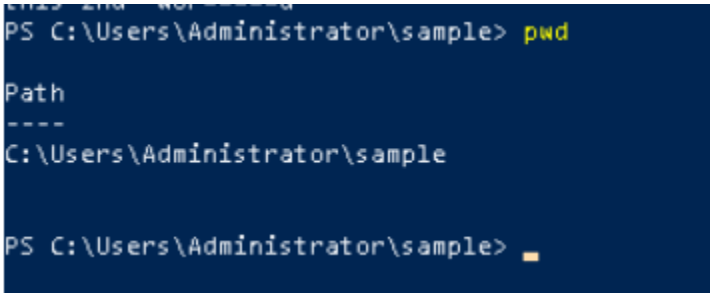
Task 4:

Create a Folder named Dummy and try to delete it.



Task 5:

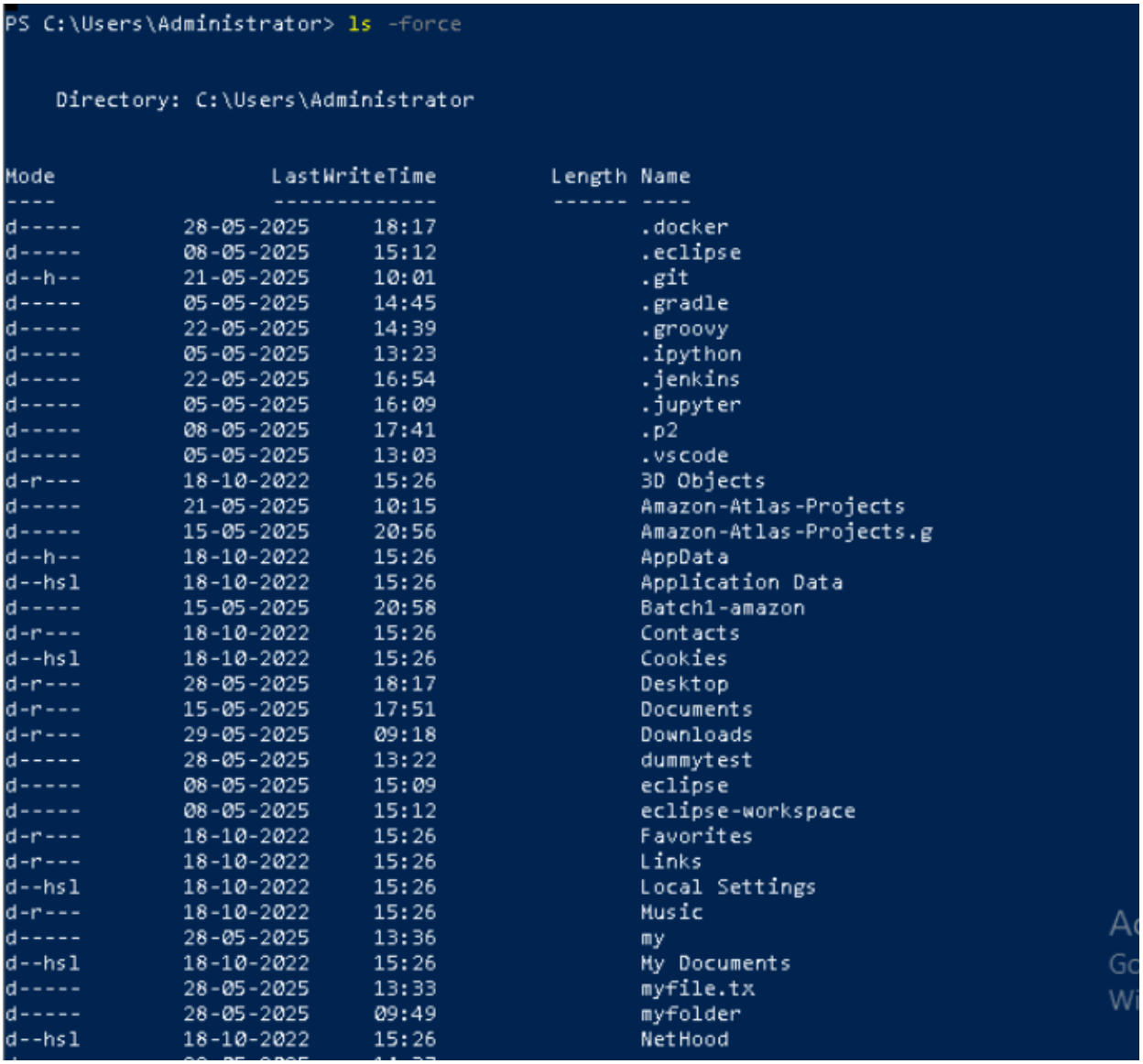
Plz check the working directory (Hint : pwd)



Task 6:

How do you check all the files and directories in the directory you are in?

```
PS C:\Users\Administrator> ls


    Directory: C:\Users\Administrator


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----         28-05-2025     18:17                .docker
d-----         08-05-2025     15:12                .eclipse
d-----         05-05-2025     14:45                .gradle
d-----         22-05-2025     14:39                .groovy
d-----         05-05-2025     13:23                .ipython
d-----         22-05-2025     16:54                .jenkins
d-----         05-05-2025     16:09                .jupyter
d-----         08-05-2025     17:41                .p2
d-----         05-05-2025     13:03                .vscode
d-r---         18-10-2022     15:26                3D Objects
d-----         21-05-2025     10:15                Amazon-Atlas-Projects
d-----         15-05-2025     20:56                Amazon-Atlas-Projects.g
d-----         15-05-2025     20:58                Batch1-amazon
d-r---         18-10-2022     15:26                Contacts
d-r---         28-05-2025     18:17                Desktop
d-r---         15-05-2025     17:51                Documents
d-r---         29-05-2025     09:18                Downloads
d-----         28-05-2025     13:22                dummytest
d-----         08-05-2025     15:09                eclipse
d-----         08-05-2025     15:12                eclipse-workspace
d-r---         18-10-2022     15:26                Favorites
d-r---         18-10-2022     15:26                Links
d-r---         18-10-2022     15:26                Music
d-----         28-05-2025     13:36                my
d-----         28-05-2025     13:33                myfile.tx
d-----         28-05-2025     09:49                myfolder
d-----         28-05-2025     14:37                new
d-r---         18-10-2022     15:27                OneDrive
d-r---         18-10-2022     15:27                Pictures
d-----         08-05-2025     16:41                Postman
d-----         28-05-2025     12:16                sample
d-r---         18-10-2022     15:26                Saved Games
d-r---         18-10-2022     15:27                Searches
d-----         28-05-2025     09:51                test
d-----         28-05-2025     09:52                testfolder
d-r---         11-09-2023     10:32                Videos
-a----         21-05-2025     10:01           2219 .bash_history
```



```
PS C:\Users\Administrator> ls -force


    Directory: C:\Users\Administrator


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        28-05-2025     18:17                .docker
d-----        08-05-2025     15:12                .eclipse
d--h--        21-05-2025     10:01                .git
d-----        05-05-2025     14:45                .gradle
d-----        22-05-2025     14:39                .groovy
d-----        05-05-2025     13:23                .ipython
d-----        22-05-2025     16:54                .jenkins
d-----        05-05-2025     16:09                .jupyter
d-----        08-05-2025     17:41                .p2
d-----        05-05-2025     13:03                .vscode
d-r---        18-10-2022     15:26                3D Objects
d-----        21-05-2025     10:15                Amazon-Atlas-Projects
d-----        15-05-2025     20:56                Amazon-Atlas-Projects.g
d--h--        18-10-2022     15:26                AppData
d--hsl        18-10-2022     15:26                Application Data
d-----        15-05-2025     20:58                Batch1-amazon
d-r---        18-10-2022     15:26                Contacts
d--hsl        18-10-2022     15:26                Cookies
d-r---        28-05-2025     18:17                Desktop
d-r---        15-05-2025     17:51                Documents
d-r---        29-05-2025     09:18                Downloads
d-----        28-05-2025     13:22                dummytest
d-----        08-05-2025     15:09                eclipse
d-----        08-05-2025     15:12                eclipse-workspace
d-r---        18-10-2022     15:26                Favorites
d-r---        18-10-2022     15:26                Links
d--hsl        18-10-2022     15:26                Local Settings
d-r---        18-10-2022     15:26                Music
d-----        28-05-2025     13:36                my
d--hsl        18-10-2022     15:26                My Documents
d-----        28-05-2025     13:33                myfile.tx
d-----        28-05-2025     09:49                myfolder
d--hsl        18-10-2022     15:26                NetHood
```

Task 7:

Create five files named TestFile2.txt.. TestFile3.txt… and so on till TestFile6.txt

```
    + CategoryInfo          : ObjeFor ($i = 2; $i -le 6; $i++) {ommandNotFoundException
>>     New-Item -Name "testfile$i.txt" -ItemType Filen
>> }
>> C:\Users\Administrator\sample>


    Directory: C:\Users\Administrator\sample


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----         28-05-2025     11:52              0 testfile2.txt
-a----         28-05-2025     11:52              0 testfile3.txt
-a----         28-05-2025     11:52              0 testfile4.txt
-a----         28-05-2025     11:52              0 testfile5.txt
-a----         28-05-2025     11:52              0 testfile6.txt


PS C:\Users\Administrator\sample>
```

Task 8:

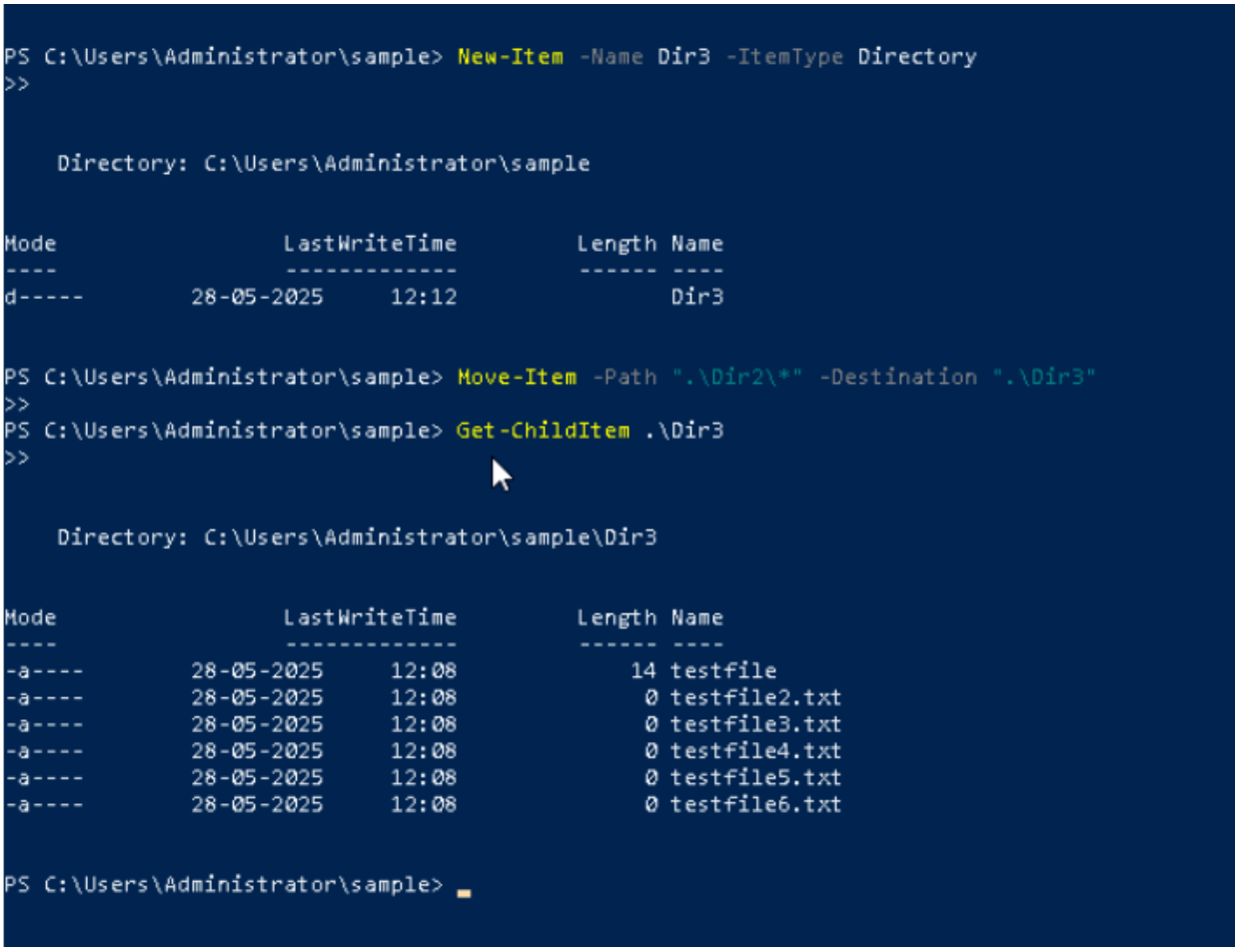
Copy all files from Dir 1 ti Dir 2
2 min 11.55 to 11.57

```
PS C:\Users\Administrator\sample> New-Item -Name Dir1 -ItemType Directory
>> New-Item -Name Dir2 -ItemType Directory
>>


    Directory: C:\Users\Administrator\sample


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----         28-05-2025     12:07                Dir1
d-----         28-05-2025     12:07                Dir2


PS C:\Users\Administrator\sample> Set-Location Dir1
>>
PS C:\Users\Administrator\sample\Dir1> for ($i = 2; $i -le 6; $i++) {
>>     New-Item -Name "testfile$i.txt" -ItemType File
>> }
>> echo "type" > testfile
>>


    Directory: C:\Users\Administrator\sample\Dir1


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----         28-05-2025     12:08              0 testfile2.txt
-a----         28-05-2025     12:08              0 testfile3.txt
-a----         28-05-2025     12:08              0 testfile4.txt
-a----         28-05-2025     12:08              0 testfile5.txt
-a----         28-05-2025     12:08              0 testfile6.txt
```

```
PS C:\Users\Administrator\sample> New-Item -Name Dir1 -ItemType Directory
>> New-Item -Name Dir2 -ItemType Directory
>>


    Directory: C:\Users\Administrator\sample


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        28-05-2025     12:07                Dir1
d-----        28-05-2025     12:07                Dir2


PS C:\Users\Administrator\sample> Set-Location Dir1
>>
PS C:\Users\Administrator\sample\Dir1> for ($i = 2; $i -le 6; $i++) {
>>     New-Item -Name "testfile$i.txt" -ItemType File
>> }
>> echo "type" > testfile
>>


    Directory: C:\Users\Administrator\sample\Dir1


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----        28-05-2025     12:08              0 testfile2.txt
-a----        28-05-2025     12:08              0 testfile3.txt
-a----        28-05-2025     12:08              0 testfile4.txt
-a----        28-05-2025     12:08              0 testfile5.txt
-a----        28-05-2025     12:08              0 testfile6.txt


PS C:\Users\Administrator\sample\Dir1> Set-Location ..
>>
PS C:\Users\Administrator\sample> Copy-Item -Path ".\Dir1\*" -Destination ".\Dir2" -Recurse
>>
PS C:\Users\Administrator\sample> Get-ChildItem .\Dir2
>>


    Directory: C:\Users\Administrator\sample\Dir2


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----        28-05-2025     12:08             14 testfile
-a----        28-05-2025     12:08              0 testfile2.txt
-a----        28-05-2025     12:08              0 testfile3.txt
```

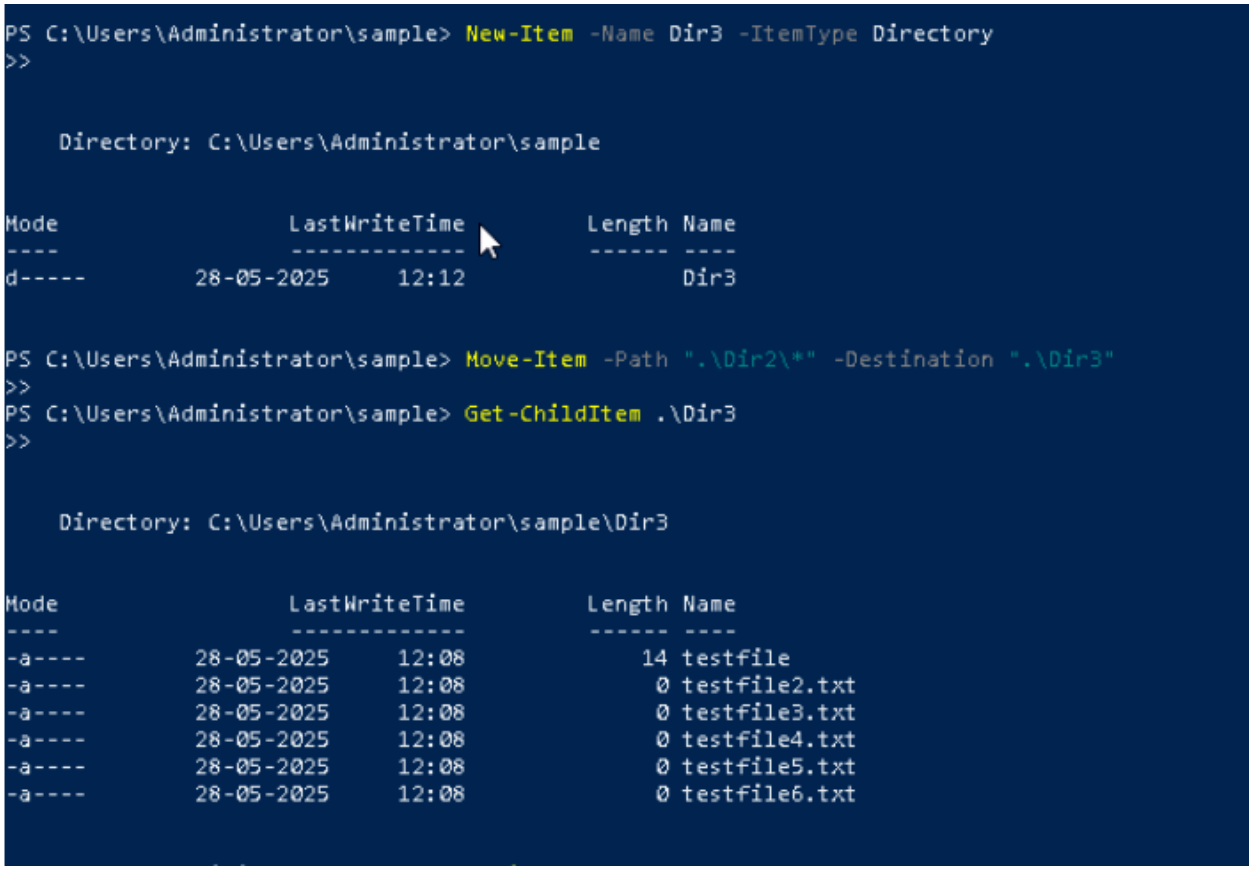
```
>>
PS C:\Users\Administrator\sample\Dir1> for ($i = 2; $i -le 6; $i++) {
>>     New-Item -Name "testfile$i.txt" -ItemType File
>> }
>> echo "type" > testfile
>>


    Directory: C:\Users\Administrator\sample\Dir1


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----         28-05-2025     12:08              0 testfile2.txt
-a----         28-05-2025     12:08              0 testfile3.txt
-a----         28-05-2025     12:08              0 testfile4.txt
-a----         28-05-2025     12:08              0 testfile5.txt
-a----         28-05-2025     12:08              0 testfile6.txt


PS C:\Users\Administrator\sample\Dir1> Set-Location ..
>>
PS C:\Users\Administrator\sample> Copy-Item -Path ".\Dir1\*" -Destination ".\Dir2" -Recurse
>>
PS C:\Users\Administrator\sample> Get-ChildItem .\Dir2
>>


    Directory: C:\Users\Administrator\sample\Dir2


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----         28-05-2025     12:08             14 testfile
-a----         28-05-2025     12:08              0 testfile2.txt
-a----         28-05-2025     12:08              0 testfile3.txt
-a----         28-05-2025     12:08              0 testfile4.txt
-a----         28-05-2025     12:08              0 testfile5.txt
-a----         28-05-2025     12:08              0 testfile6.txt


PS C:\Users\Administrator\sample>
```

Move all files from Dir 2 to Dir 3 (finally ur Dir 2 should be empty)



Task 9:

Move all files from Dir 2 to Dir 3 (finally ur Dir 2 should be empty)



Task 10:

Can you plz show me the diff between rm and rmdir commands with screen shots ?

```
PS C:\Users\Administrator\sample\dummy> mkdir testfolder
>>


    Directory: C:\Users\Administrator\sample\dummy


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        28-05-2025     12:40                testfolder


PS C:\Users\Administrator\sample\dummy> touch testfolder/file1.txt
touch : The term 'touch' is not recognized as the name of a cmdlet, function, script file, or operable program.
Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ touch testfolder/file1.txt
+ ~~~~~
    + CategoryInfo          : ObjectNotFound: (touch:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\Administrator\sample\dummy> echo "hi">file1.txt
PS C:\Users\Administrator\sample\dummy> type file.txt
type : Cannot find path 'C:\Users\Administrator\sample\dummy\file.txt' because it does not exist.
At line:1 char:1
+ type file.txt
+ ~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (C:\Users\Admini...\dummy\file.txt:String) [Get-Content], ItemNot
   FoundException
    + FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.GetContentCommand

PS C:\Users\Administrator\sample\dummy> type file1.txt
hi
PS C:\Users\Administrator\sample\dummy> echo "haaai">file2.txt
PS C:\Users\Administrator\sample\dummy> type file2.txt
haaai
PS C:\Users\Administrator\sample\dummy> echo "Hello file1" > testfolder/file1.txt
>> echo "Hello file2" > testfolder/file2.txt
>>
PS C:\Users\Administrator\sample\dummy> ls testfolder
>>


    Directory: C:\Users\Administrator\sample\dummy\testfolder
```

```
PS C:\Users\Administrator\sample\dummy> type file1.txt
hi
PS C:\Users\Administrator\sample\dummy> echo "haaai">file2.txt
PS C:\Users\Administrator\sample\dummy> type file2.txt
haaai
PS C:\Users\Administrator\sample\dummy> echo "Hello file1" > testfolder/file1.txt
>> echo "Hello file2" > testfolder/file2.txt
>>
PS C:\Users\Administrator\sample\dummy> ls testfolder
>>


    Directory: C:\Users\Administrator\sample\dummy\testfolder


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----        28-05-2025     12:43             28 file1.txt
-a----        28-05-2025     12:43             28 file2.txt


PS C:\Users\Administrator\sample\dummy> rm testfolder/file1.txt
>> rm testfolder/file2.txt
>>
PS C:\Users\Administrator\sample\dummy> ls testfolder
>>
PS C:\Users\Administrator\sample\dummy> ls testfolder
PS C:\Users\Administrator\sample\dummy> ls -A testfolder
>>
Get-ChildItem : Parameter cannot be processed because the parameter name 'A' is ambiguous. Possible matches
include: -Attributes -Directory -File -Hidden -ReadOnly -System.
At line:1 char:4
+ ls -A testfolder
+    ~~
    + CategoryInfo          : InvalidArgument: (:) [Get-ChildItem], ParameterBindingException
    + FullyQualifiedErrorId : AmbiguousParameter,Microsoft.PowerShell.Commands.GetChildItemCommand

PS C:\Users\Administrator\sample\dummy> rmdir testfolder
>>
PS C:\Users\Administrator\sample\dummy> ls testfolder
ls : Cannot find path 'C:\Users\Administrator\sample\dummy\testfolder' because it does not exist.
At line:1 char:1
+ ls testfolder
+ ~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (C:\Users\Admini...ummy\testfolder:String) [Get-ChildItem], ItemN
   otFoundException
    + FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.GetChildItemCommand
```


```
PS C:\Users\Administrator\sample\dummy> rm testfolder/file1.txt
>> rm testfolder/file2.txt
>>
PS C:\Users\Administrator\sample\dummy> ls testfolder
>>
PS C:\Users\Administrator\sample\dummy> ls testfolder
PS C:\Users\Administrator\sample\dummy> ls -A testfolder
>>
Get-ChildItem : Parameter cannot be processed because the parameter name 'A' is ambiguous. Possible matches
include: -Attributes -Directory -File -Hidden -ReadOnly -System.
At line:1 char:4
+ ls -A testfolder
+    ~~
    + CategoryInfo          : InvalidArgument: (:) [Get-ChildItem], ParameterBindingException
    + FullyQualifiedErrorId : AmbiguousParameter,Microsoft.PowerShell.Commands.GetChildItemCommand

PS C:\Users\Administrator\sample\dummy> rmdir testfolder
>>
PS C:\Users\Administrator\sample\dummy> ls testfolder
ls : Cannot find path 'C:\Users\Administrator\sample\dummy\testfolder' because it does not exist.
At line:1 char:1
+ ls testfolder
+ ~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (C:\Users\Admini...ummy\testfolder:String) [Get-ChildItem], ItemN
   otFoundException
    + FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.GetChildItemCommand
```


Ok now open Lorem Ipsum in your browser

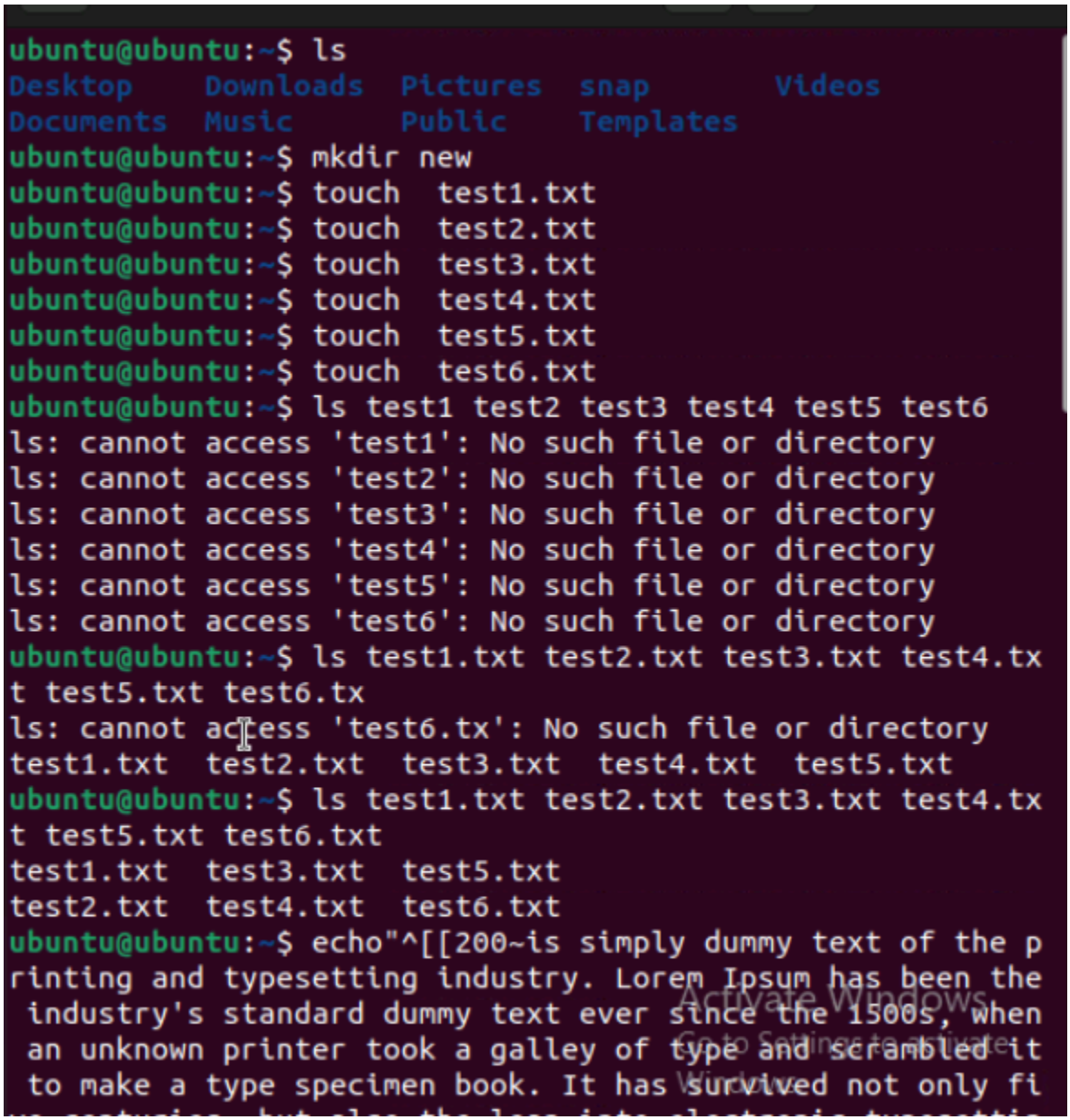
https://www.lipsum.com/ **u can use this link for random text**..

Task 11:

Now use specifically use cat command to create a file

And add the dummy text of 2 to 3 paragraphs from the above link Lorem Ipsum.

5 min 12.08 to 12.13



```
ubuntu@ubuntu:~$ echo " 200~is simply dummy text of the
inting and typesetting industry. Lorem Ipsum has been
industry's standard dummy text ever since the 1500s, wh
an unknown printer took a galley of type and scrambled
to make a type specimen book. It has survived not only
e centuries, but also the leap into electronic typeset
, remaining essentially unchanged. It was popularised
he 1960s with the release of Letraset sheets containing
rem Ipsum passages, and more recently with desktop publ
ing software like Aldus PageMaker including ve~" >> tes
txt
ubuntu@ubuntu:~$ cat test1.txt
 200~is simply dummy text of the printing and typesetti
industry. Lorem Ipsum has been the industry's standard
my text ever since the 1500s, when an unknown printer
 a galley of type and scrambled it to make a type speci
 book. It has survived not only five centuries, but als
he leap into electronic typesetting, remaining essentia
 unchanged. It was popularised in the 1960s with the re
se of Letraset sheets containing Lorem Ipsum passages,
 more recently with desktop publishing software like Al
 PageMaker including ve~
```

Task 12:

How to get only the top part of your file..

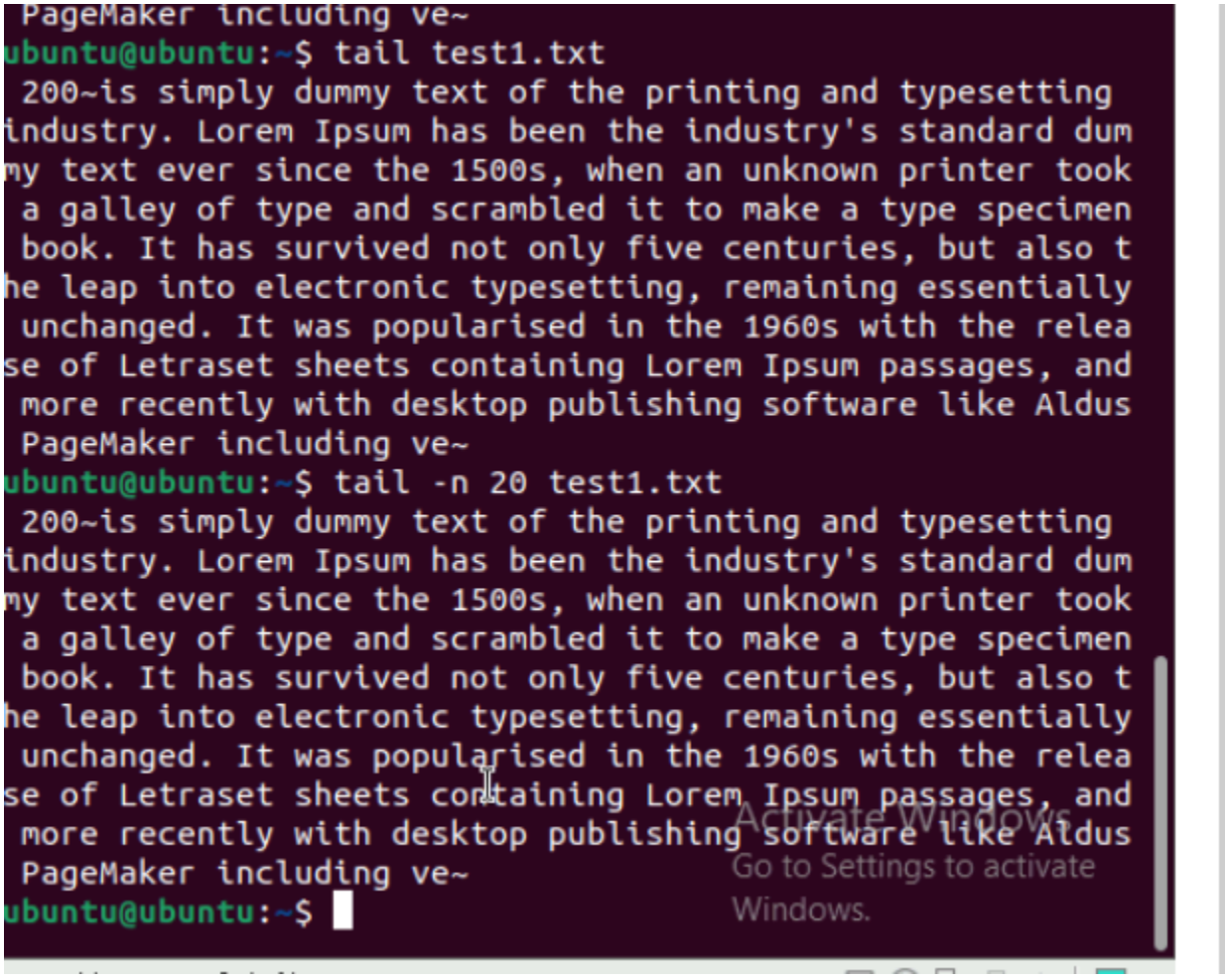
Hint: use head

```
ubuntu@ubuntu:~$ head -n 1 test1.txt
 200~is simply dummy text of the printing and typesetting
industry. Lorem Ipsum has been the industry's standard dum
my text ever since the 1500s, when an unknown printer took
 a galley of type and scrambled it to make a type specimen
 book. It has survived not only five centuries, but also t
he leap into electronic typesetting, remaining essentially
 unchanged. It was popularised in the 1960s with the relea
se of Letraset sheets containing Lorem Ipsum passages, and
 more recently with desktop publishing software like Aldus
 PageMaker including ve~
ubuntu@ubuntu:~$
```

Task 13:

How to get only the last part of your file

Hint: use tail

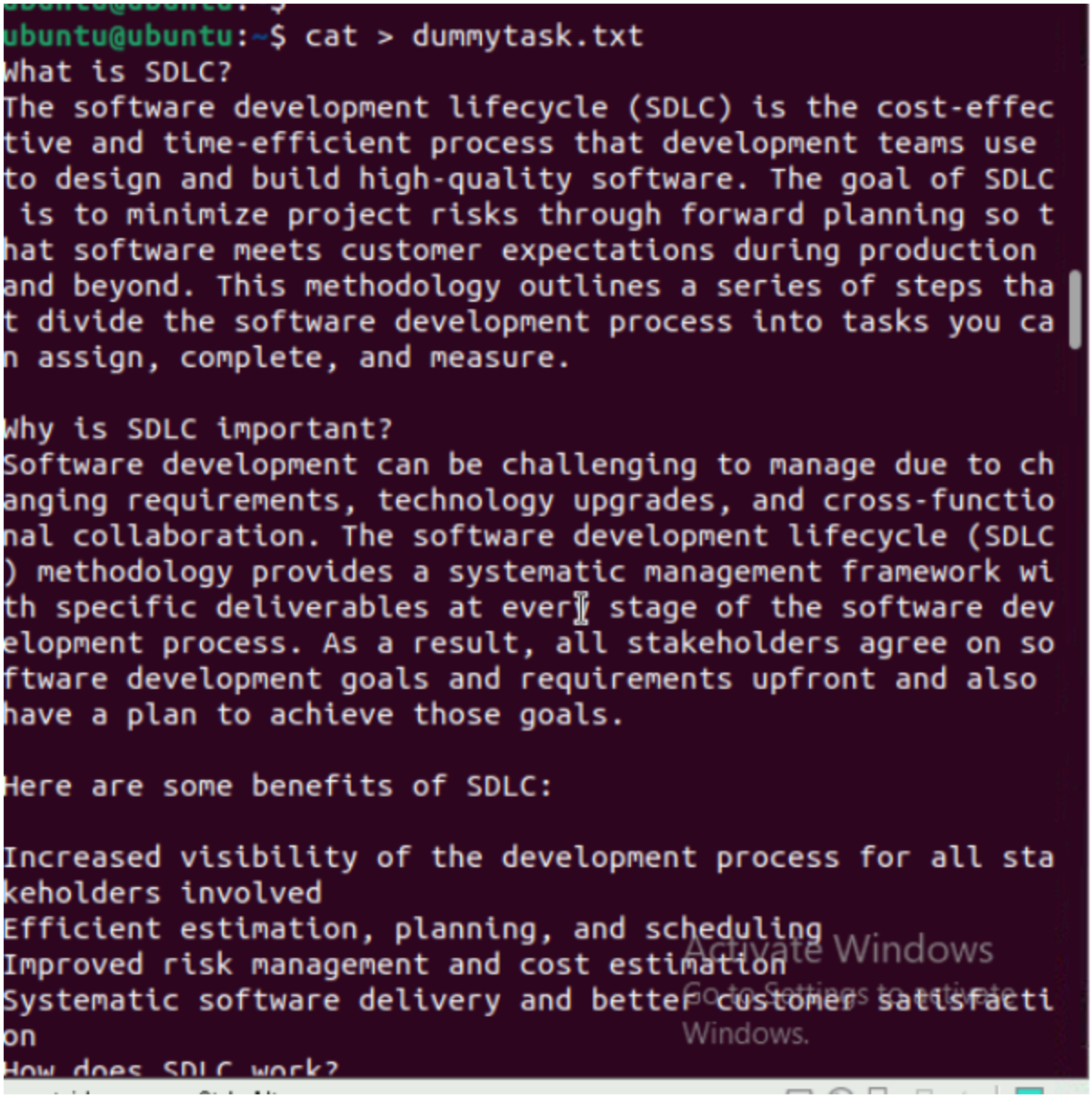


Task 14:

Plz add dummy text of 5 to 6 pages in to the same file

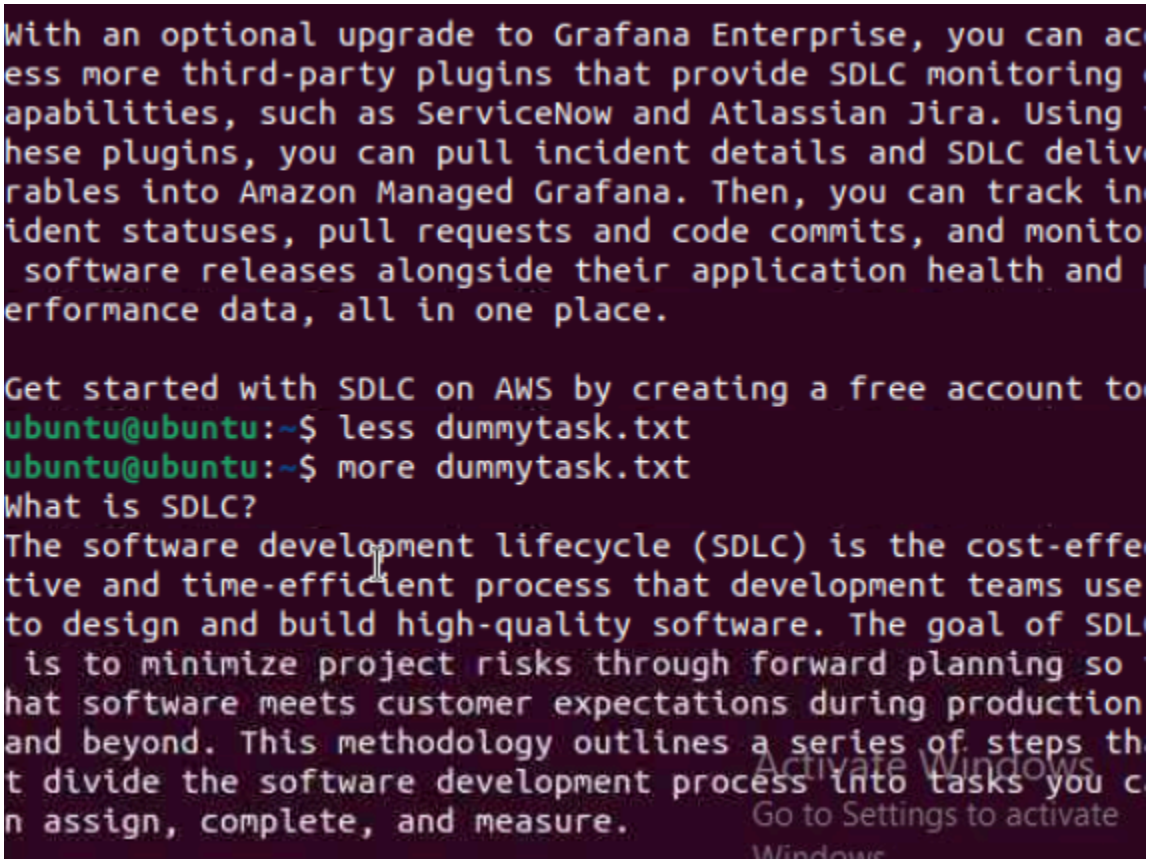
And
Now show the file in page by page

Hint : use less command



Task 15:

Use more command on the above file and find out the diff between less command and more command.



What is e in echo command..?

The e in the echo command is an option that enables the interpretation of backslash escape sequences. These sequences allow you to insert special characters and formatting into the output.

Tak 16

Can you use echo command with -e and see the diff.. Also take a ss and paste .

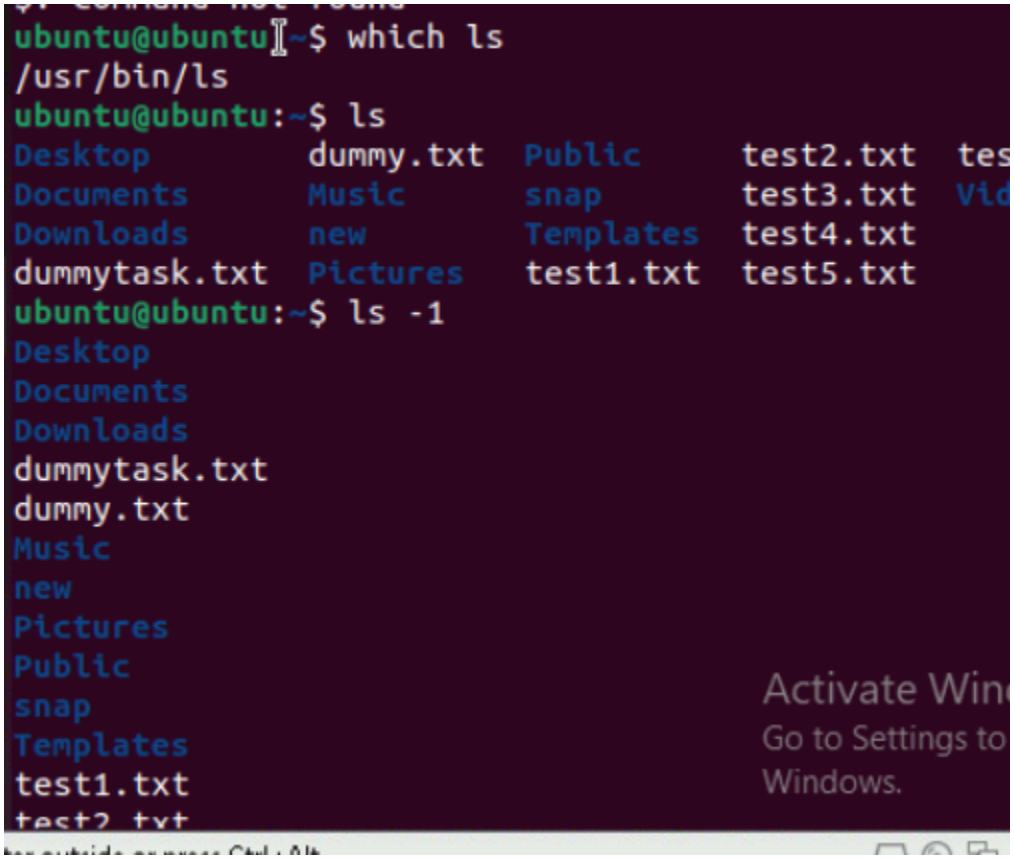
Task 17
What is diff between ls and ls -l command .. ss plz

`ls` Command

- **Definition:**
    - **The `ls` command is used to list the files and directories in a specified directory (or the current directory if no directory is provided). It shows a simple, concise listing of filenames or directory names without additional details.**

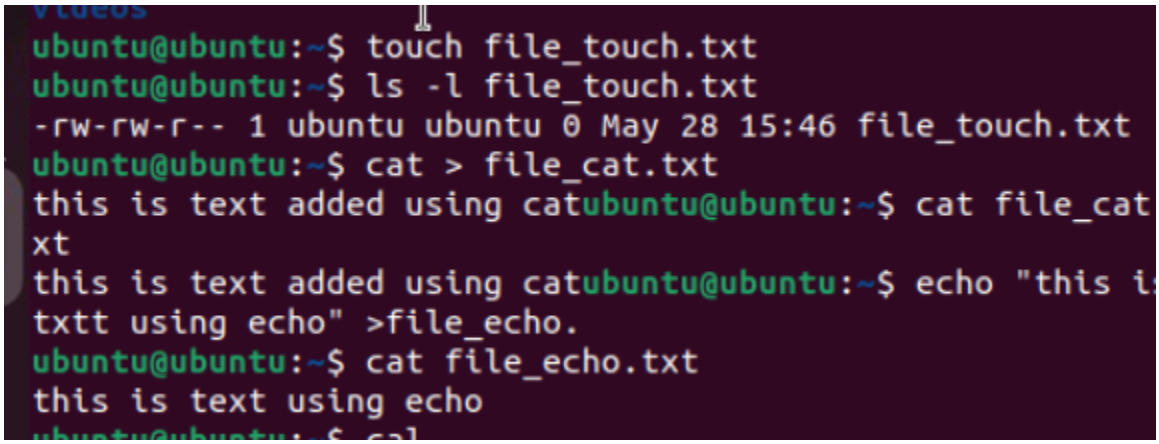
Definition:

- **The `ls -l` command is an extended version of the `ls` command with the `-l` (long listing) option, which provides a detailed listing of files and directories. This includes information such as file permissions, number of links, file owner, group, file size, and last modified date and time.**



Task 18:

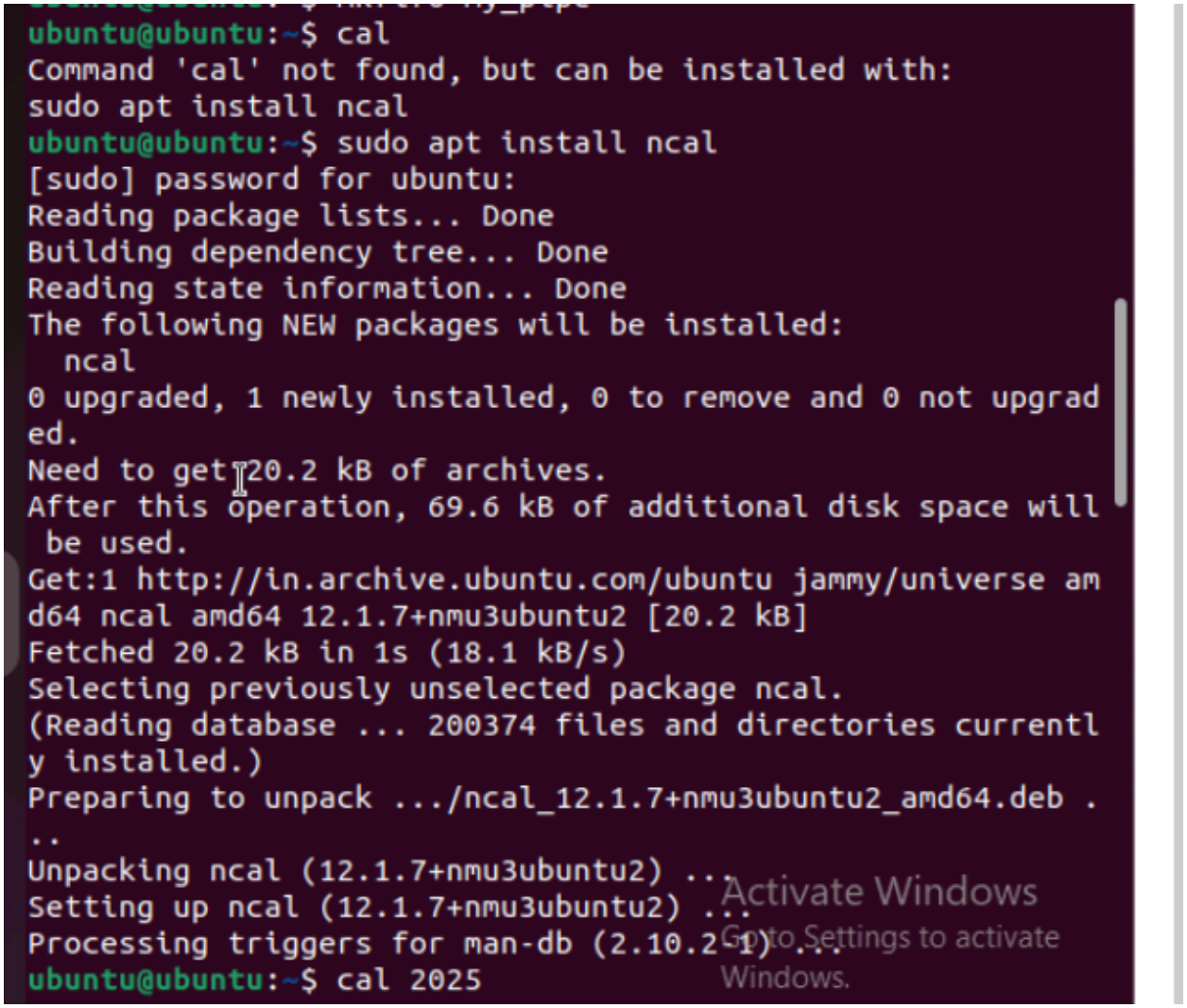
Create a file using touch command , cat command and echo command and take ss (screen shot)..

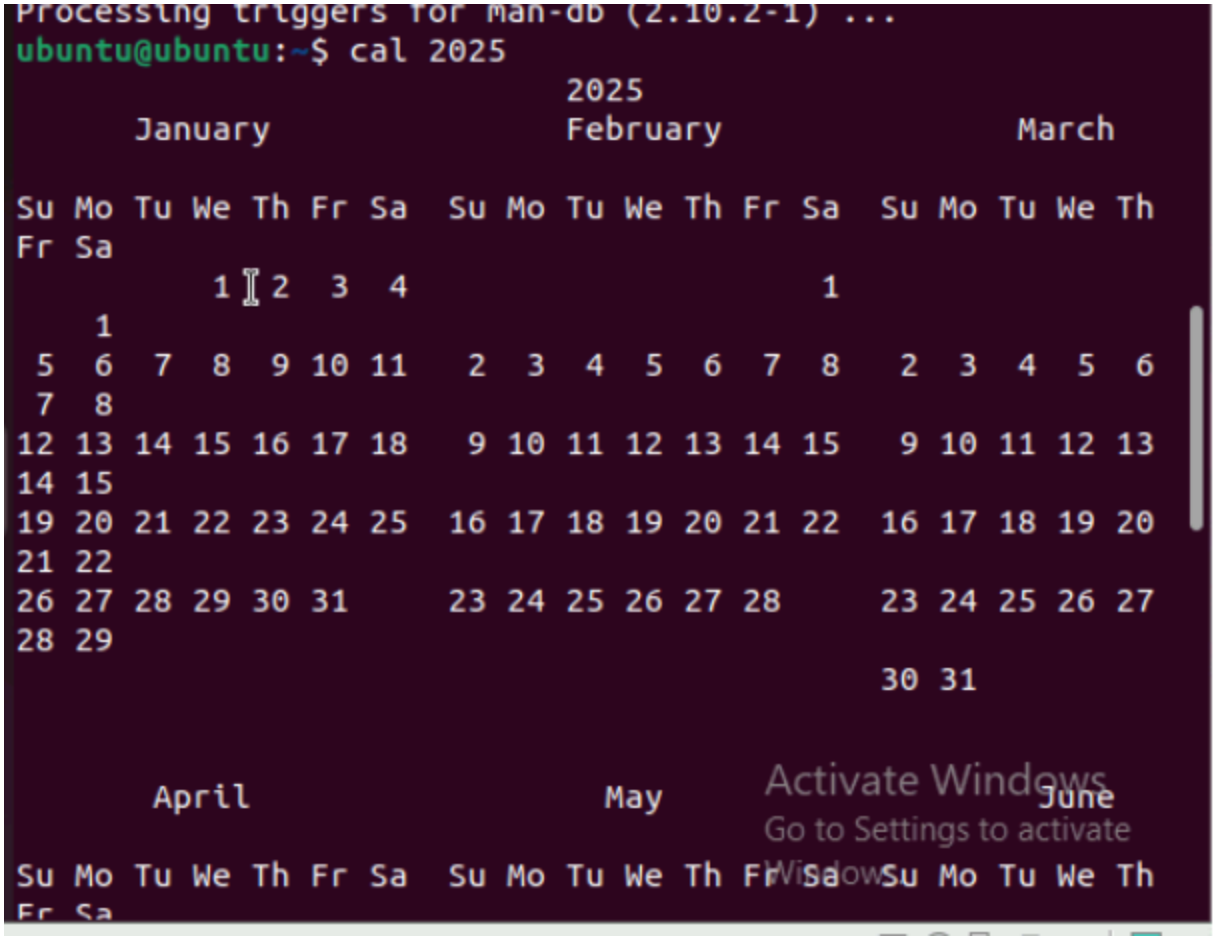


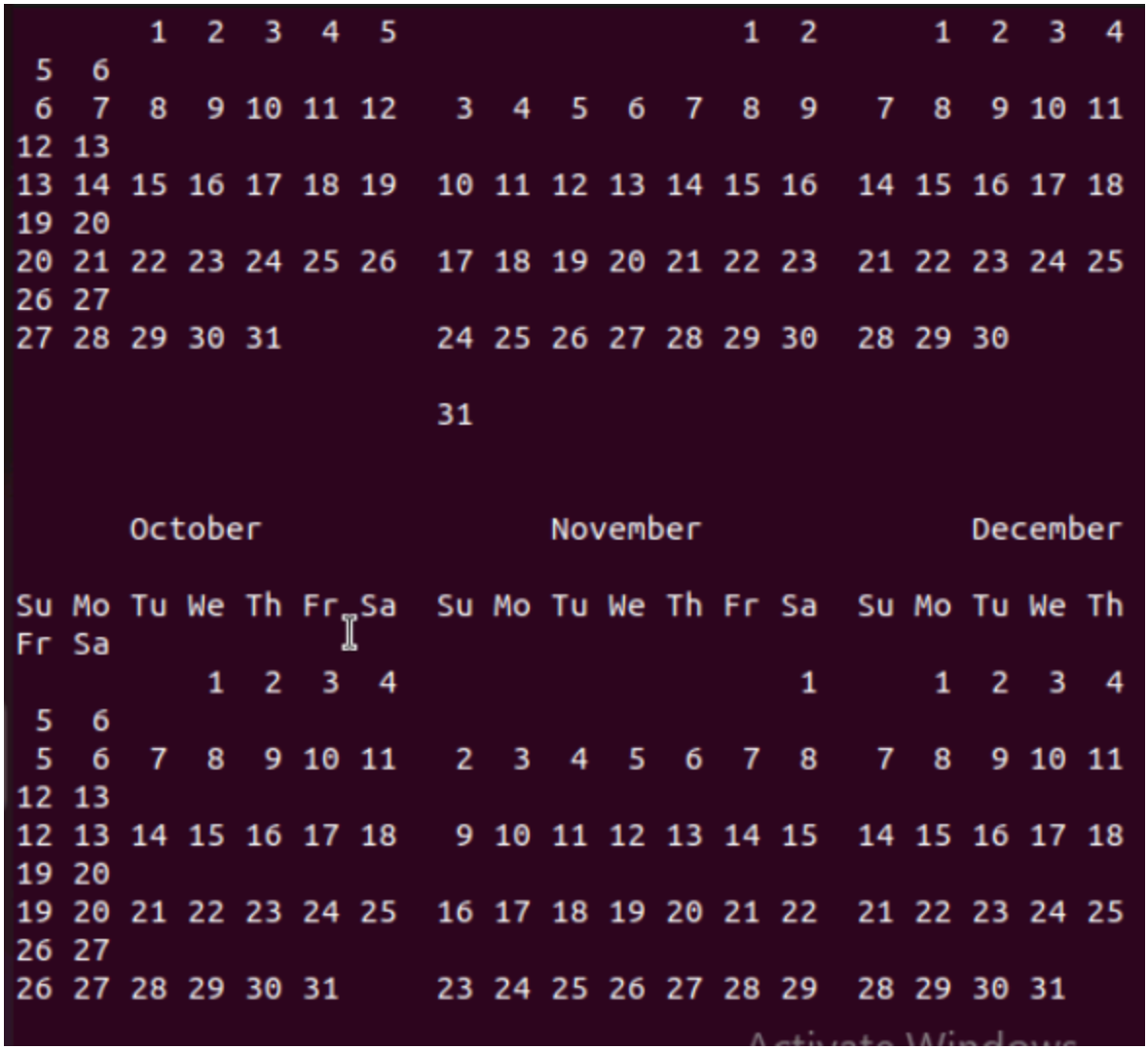
Task 19:

Can you guys try to display the calendar by using a command..

Hint: use cal

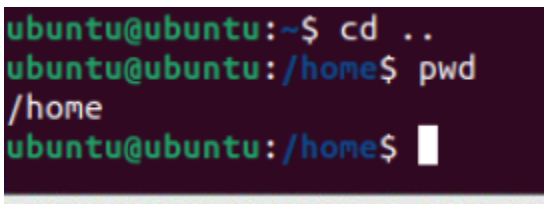

ubuntu@ubuntu:~$ cal
Command 'cal' not found, but can be installed with:
sudo apt install ncal
ubuntu@ubuntu:~$ sudo apt install ncal
[sudo] password for ubuntu:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
ncal
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 20.2 kB of archives.
After this operation, 69.6 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 ncal amd64 12.1.7+nmu3ubuntu2 [20.2 kB]
Fetched 20.2 kB in 1s (18.1 kB/s)
Selecting previously unselected package ncal.
(Reading database ... 200374 files and directories currently installed.)
Preparing to unpack .../ncal_12.1.7+nmu3ubuntu2_amd64.deb ...
Unpacking ncal (12.1.7+nmu3ubuntu2) ...
Setting up ncal (12.1.7+nmu3ubuntu2) ...
Processing triggers for man-db (2.10.2-1) ...
ubuntu@ubuntu:~$ cal 2025
Activate Windows
Go to Settings to activate Windows.


Processing triggers for man-db (2.10.2-1) ...
ubuntu@ubuntu:~$ cal 2025
2025
January
February
March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
1 2 3 4 1 1
5 6 7 8 9 10 11 2 3 4 5 6 7 8 2 3 4 5 6 7 8
12 13 14 15 16 17 18 9 10 11 12 13 14 15 9 10 11 12 13 14 15
19 20 21 22 23 24 25 16 17 18 19 20 21 22 16 17 18 19 20 21 22
26 27 28 29 30 31 23 24 25 26 27 28 23 24 25 26 27 28 29
30 31
April
May
June
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
Activate Windows
Go to Settings to activate Windows.



Task 20:

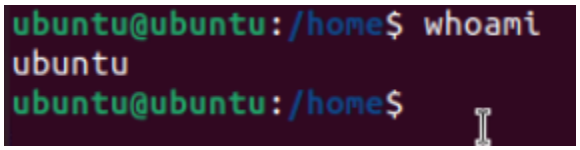
Can you go back to 1 directory .. at a time whats the command



Task 21:

How to know whose user u are working on ?

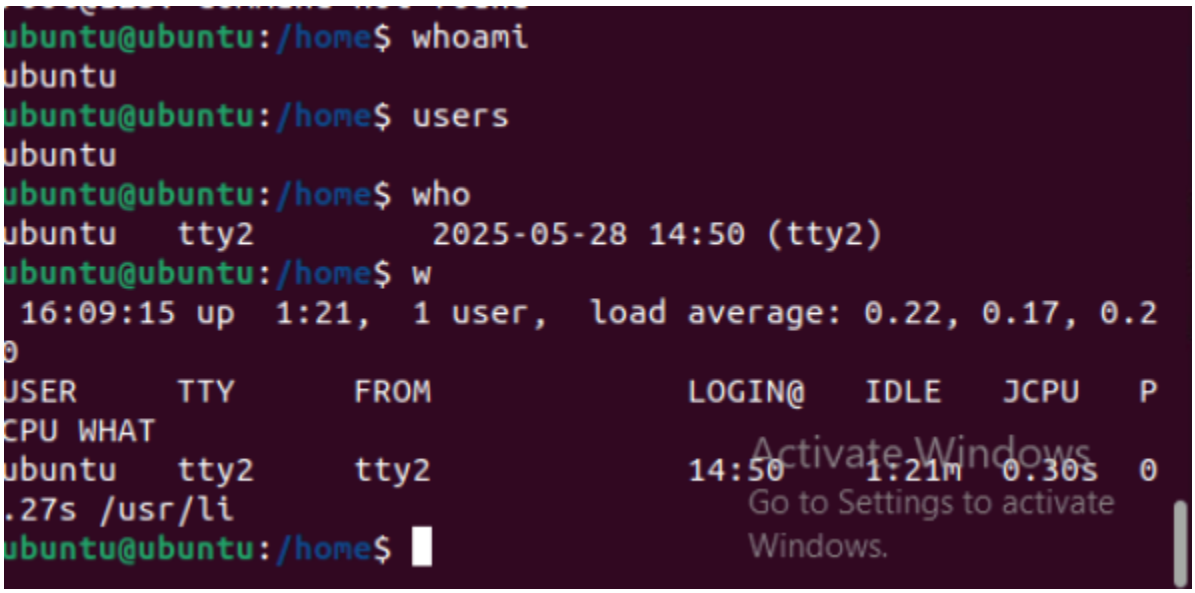
Hint: use whoami command



Task 22:

Try to find out who is peeping into your system..

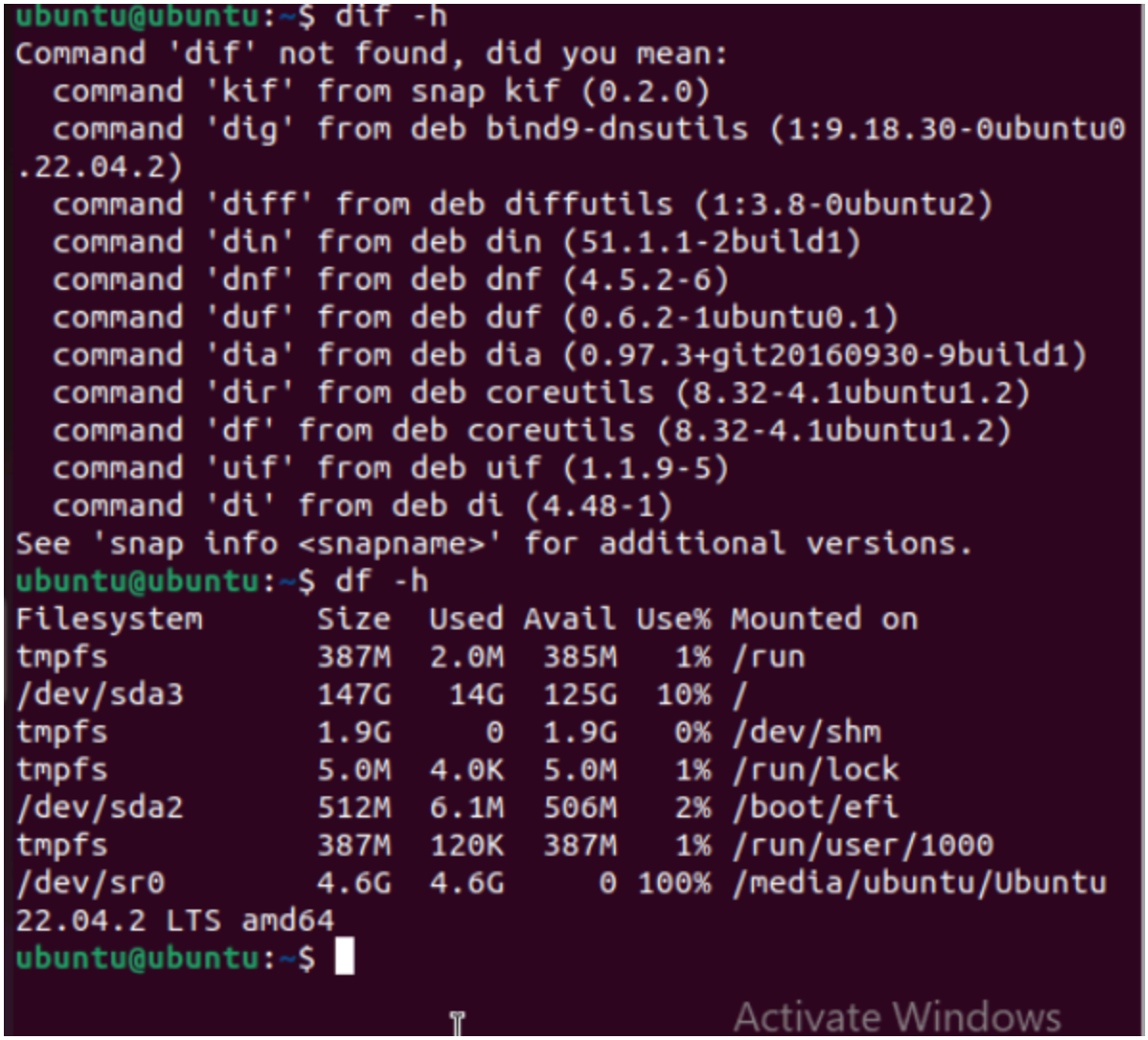
Use users, who and w commands with ss



Task 23:

Can you guys try to check how much disk space is consumed..

Hint : use df -h



Task 24:

Can you plz try using the below commands

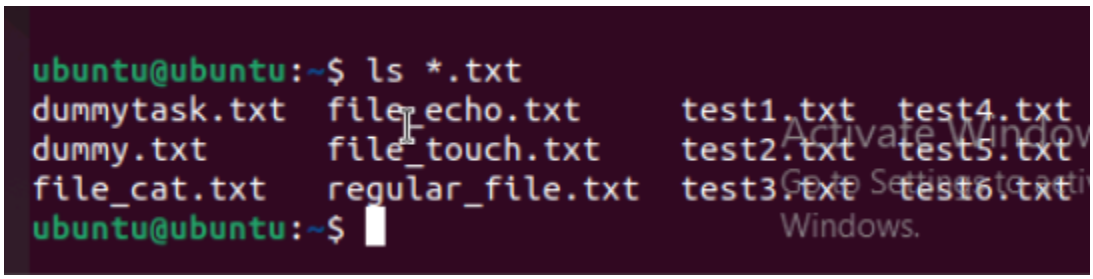
Prefix	Description
-	**Regular file**, such as an ASCII text file, binary executable, or hard link.
b	**Block special file**. Block input/output device file such as a physical hard drive.

c	**Character special file**. Raw input/output device file such as a physical hard drive.
d	**Directory** which contains a listing of other files and directories.
l	**Symbolic link file**. Links on any regular file.
p	**Named pipe**. A mechanism for interprocess communications.
s	**Socket** which is used for interprocess communication.

Task 25:

Find the list pf all files ending with .txt

Hint : use * in ls

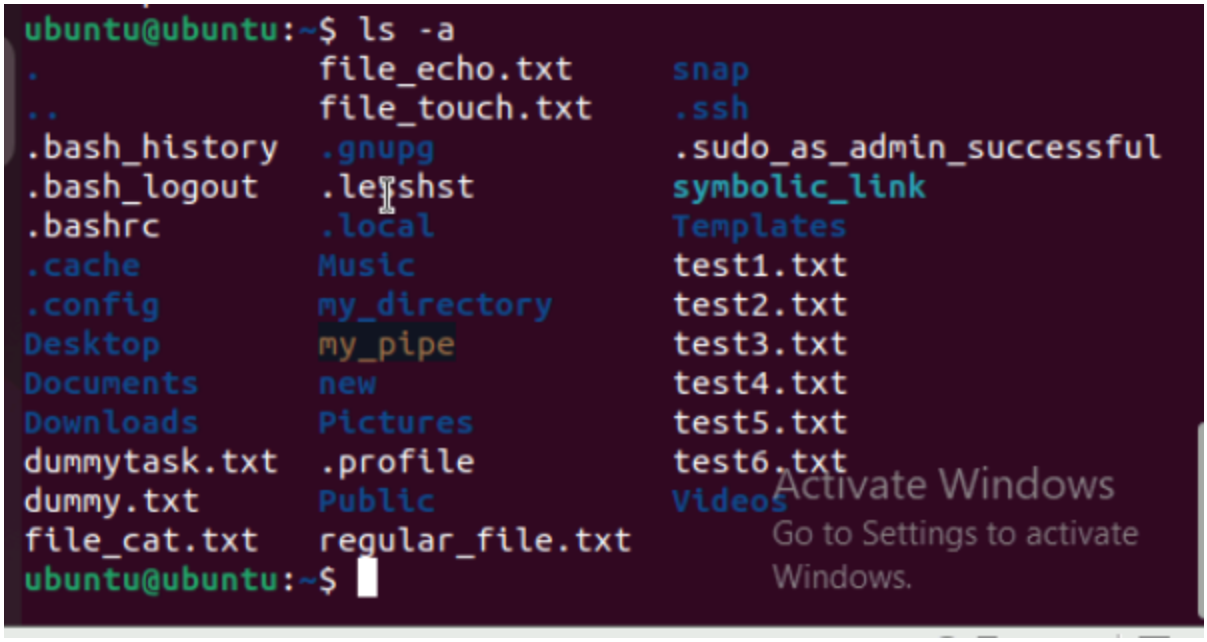


Task 26:

In Linux all the hidden files starts with . (period)

How to check all the hidden files in Linux..

Hint : use ls -a

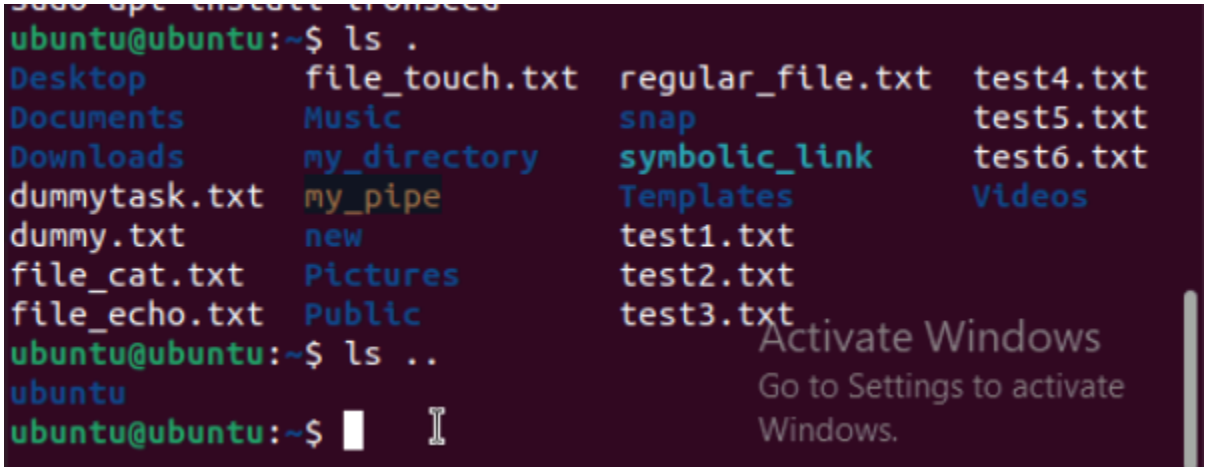


Task 27:

What is the difference between . and .. in linux
Line 1 line for each

. **refers to the current directory.**

.. **refers to the parent directory.**



Task 28:

Can you create a file using vi editor and show the details in ss

Hint:

Esc is for come out of the edit mode

Press two keys Shift + ZZ together to come out of the file completely

I - to insert

To move inside the file

l key to move to the right side.
h key to move to the left side.
k key to move upside in the file.
j key to move downside in the file.