

PRACTICAL 1

1. Display user manual of a command.

```
Command Prompt - help dir X + v
Microsoft Windows [Version 10.0.26200.7623]
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C:\Users\Dell>help dir
Displays a list of files and subdirectories in a directory.

DIR [drive:][path][filename] [/A[[:]attributes]] [/B] [/C] [/D] [/L] [/N]
 [/O[[:]sortorder]] [/P] [/Q] [/R] [/S] [/T[[:]timefield]] [/W] [/X] [/4]

[drive:][path][filename]
    Specifies drive, directory, and/or files to list.

/A      Displays files with specified attributes.
attributes  D Directories          R Read-only files
              H Hidden files        A Files ready for archiving
              S System files        I Not content indexed files
              L Reparse Points      O Offline files
              - Prefix meaning not

/B      Uses bare format (no heading information or summary).
/C      Display the thousand separator in file sizes. This is the
        default. Use /-C to disable display of separator.
/D      Same as wide but files are list sorted by column.
/L      Uses lowercase.
/N      New long list format where filenames are on the far right.
/O      List by files in sorted order.
sortorder  N By name (alphabetic)      S By size (smallest first)
            E By extension (alphabetic) D By date/time (oldest first)
            G Group directories first  - Prefix to reverse order

/P      Pauses after each screenful of information.
/Q      Display the owner of the file.
/R      Display alternate data streams of the file.
/S      Displays files in specified directory and all subdirectories.
/T      Controls which time field displayed or used for sorting
timefield C Creation
           A Last Access
           W Last Written

/W      Uses wide list format.
/X      This displays the short names generated for non-8dot3 file
        names. The format is that of /N with the short name inserted
        before the long name. If no short name is present, blanks are
        displayed in its place.
```

2. Change current working directory.

```
The system cannot find the path specified.

C:\Users\Dell>cd Documents

C:\Users\Dell\Documents>|
```

3. List contents of current directory.

```
C:\Users\Dell\Documents>dir
Volume in drive C has no label.
Volume Serial Number is DE02-9021

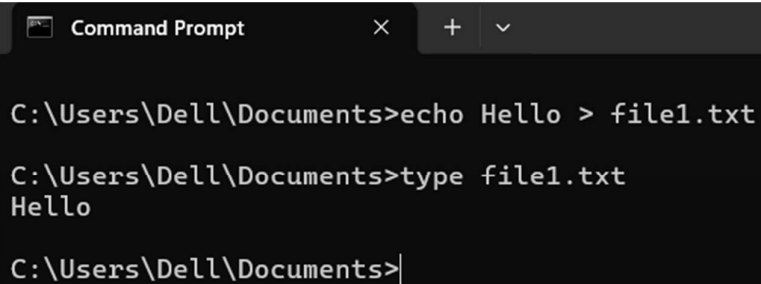
Directory of C:\Users\Dell\Documents

23-06-2025  17:53    <DIR>          .
19-01-2026  15:56    <DIR>          ..
               0 File(s)                0 bytes
               2 Dir(s)  27,031,748,608 bytes free

C:\Users\Dell\Documents>
```

4. Read, modify & concatenate text files.

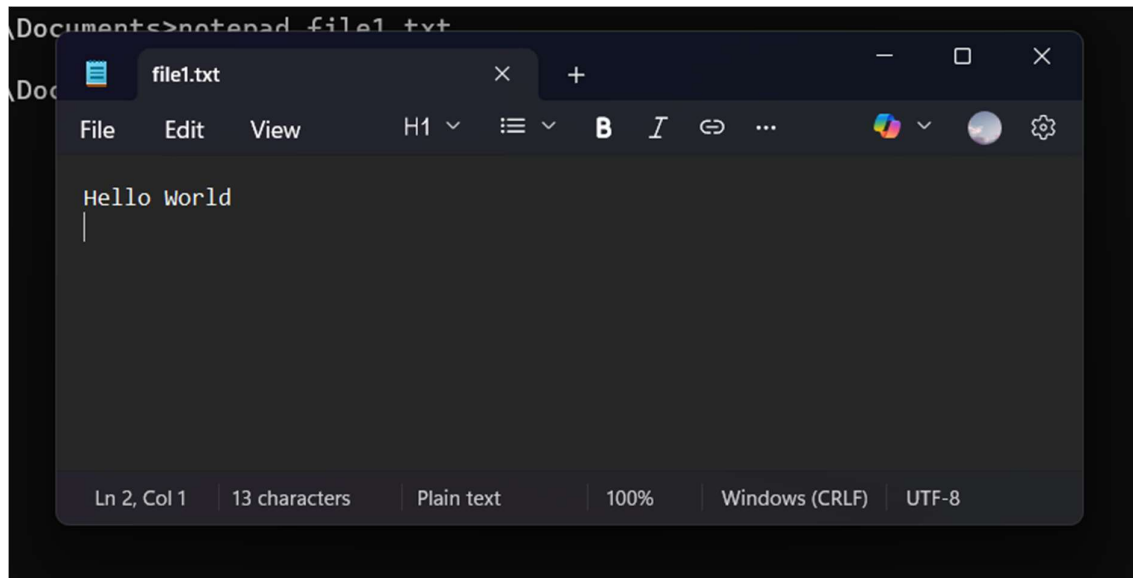
Read:



```
Command Prompt
C:\Users\Dell\Documents>echo Hello > file1.txt
C:\Users\Dell\Documents>type file1.txt
Hello
C:\Users\Dell\Documents>
```

Modify:

```
C:\Users\Dell\Documents>notepad file1.txt
C:\Users\Dell\Documents>
```



Concatenate:

```
C:\Users\Dell\Documents>echo Hello > file1.txt
C:\Users\Dell\Documents>type file1.txt
Hello
C:\Users\Dell\Documents>notepad file1.txt
C:\Users\Dell\Documents>echo World > file2.txt
C:\Users\Dell\Documents>type file1.txt file2.txt > merged.txt
file1.txt

file2.txt

C:\Users\Dell\Documents>type merged.txt
Hello World

World
C:\Users\Dell\Documents>
```

5. Create a new directory.

```
C:\Users\Dell\Documents>mkdir OSFOLDER

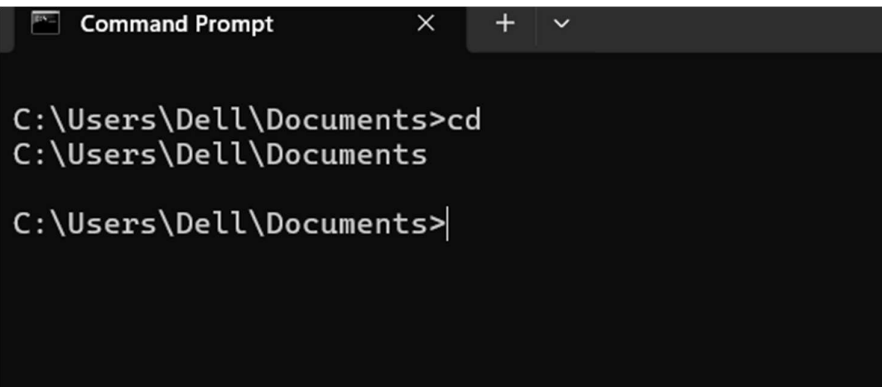
C:\Users\Dell\Documents>dir
Volume in drive C has no label.
Volume Serial Number is DE02-9021

Directory of C:\Users\Dell\Documents

19-01-2026  19:16    <DIR>          .
19-01-2026  15:56    <DIR>          ..
19-01-2026  19:06                15 file1.txt
19-01-2026  19:12                8 file2.txt
19-01-2026  19:12               23 merged.txt
19-01-2026  19:16    <DIR>          OSFOLDER
19-01-2026  19:15    <DIR>          Test0s
                        3 File(s)          46 bytes
                        4 Dir(s)  27,007,033,344 bytes free

C:\Users\Dell\Documents>|
```

6. Display current working directory.



```
Command Prompt

C:\Users\Dell\Documents>cd
C:\Users\Dell\Documents

C:\Users\Dell\Documents>|
```

7. Write arguments to standard output.

```
Command Prompt
C:\Users\Dell\Documents>cd
C:\Users\Dell\Documents
C:\Users\Dell\Documents>echo Operating System Practical1
Operating System Practical1
C:\Users\Dell\Documents>|
```

8. Remove a file.

```
Command Prompt
C:\Users\Dell\Documents>del file2.txt
C:\Users\Dell\Documents>dir
Volume in drive C has no label.
Volume Serial Number is DE02-9021

Directory of C:\Users\Dell\Documents

09-01-2026  19:24    <DIR>          .
09-01-2026  15:56    <DIR>          ..
09-01-2026  19:06                15 file1.txt
09-01-2026  19:12                23 merged.txt
09-01-2026  19:16    <DIR>          OSFOLDER
09-01-2026  19:15    <DIR>          Test0s
                2 File(s)                38 bytes
                4 Dir(s) 27,006,054,400 bytes free

C:\Users\Dell\Documents>|
```

9. Delete a directory.

```
C:\Users\Dell\Documents>rmdir OSFOLDER

C:\Users\Dell\Documents>dir
Volume in drive C has no label.
Volume Serial Number is DE02-9021

Directory of C:\Users\Dell\Documents

19-01-2026  19:26      <DIR>          .
19-01-2026  15:56      <DIR>          ..
19-01-2026  19:06                15 file1.txt
19-01-2026  19:12                23 merged.txt
19-01-2026  19:15      <DIR>          TestOs
                        2 File(s)          38 bytes
                        3 Dir(s)  27,013,087,232 bytes free

C:\Users\Dell\Documents>
```

10. Copy a file or directory.

```
C:\Users\Dell\Documents>copy file1.txt copyfile.txt
1 file(s) copied.

C:\Users\Dell\Documents>|
```

11. Switch to Root User .

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.26200.7623]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>
```

12. Move file or directory.

```
C:\Users\Dell\Documents>move copyfile.txt OS_Copy
1 file(s) moved.

C:\Users\Dell\Documents>|
```

13. Search for a word in text file.

```
Command Prompt
C:\Users\Dell\Documents>find "Hello" file1.txt
----- FILE1.TXT
Hello World

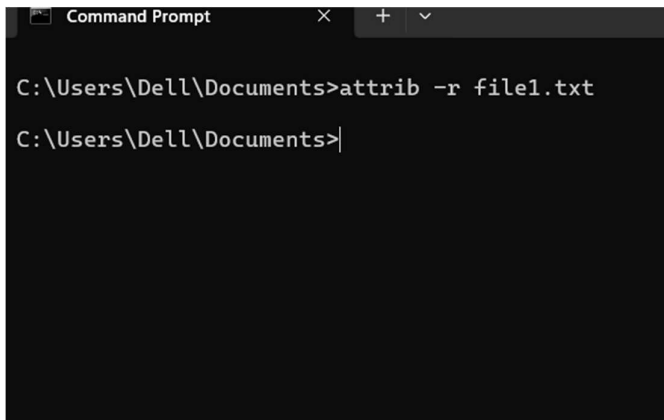
C:\Users\Dell\Documents>|
```

14. Print top N lines of a File.

```
C:\Users\Dell\Documents>more file1.txt
Hello World

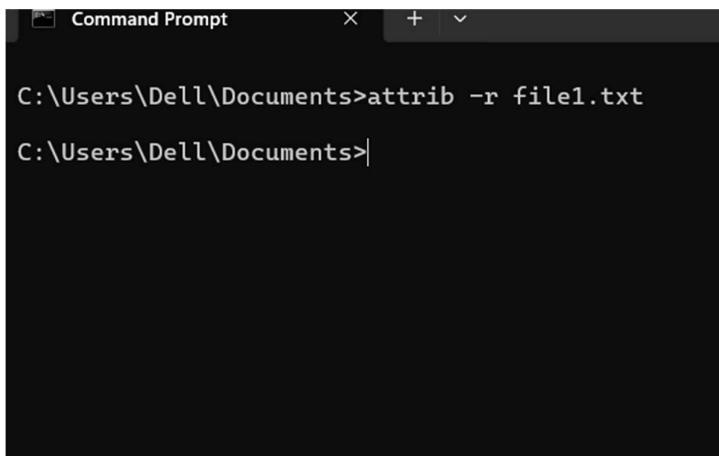
C:\Users\Dell\Documents>
```

15. Print last N lines of a File.



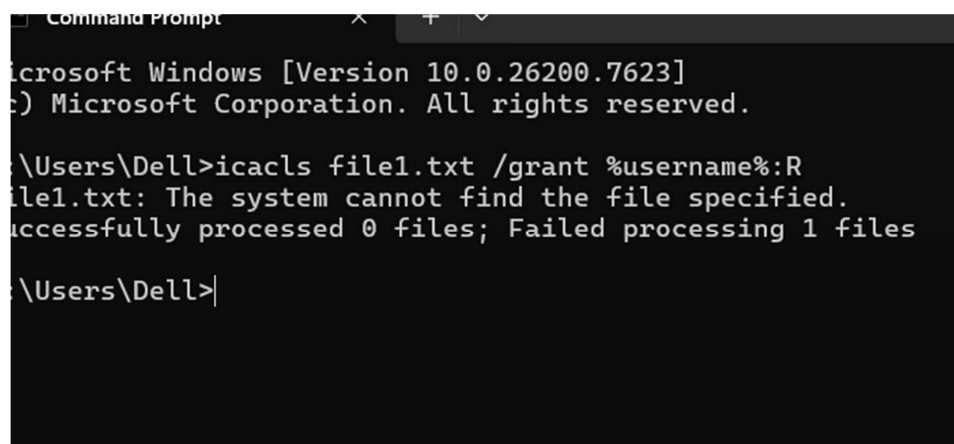
```
Command Prompt
C:\Users\Dell\Documents>attrib -r file1.txt
C:\Users\Dell\Documents>
```

16. Remove read permission from owner.



```
Command Prompt
C:\Users\Dell\Documents>attrib -r file1.txt
C:\Users\Dell\Documents>
```

17. Change Specific Permissions.

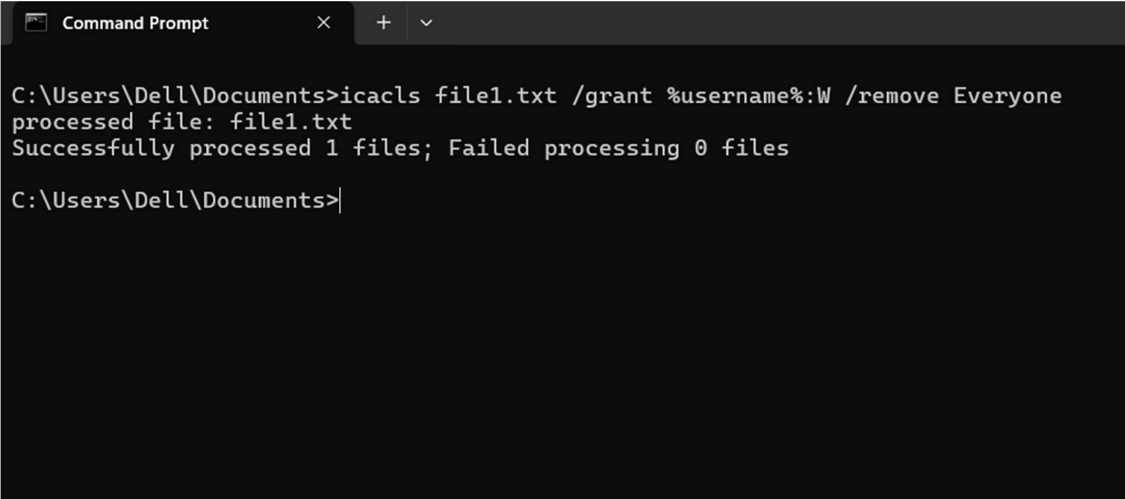


```
Command Prompt
Microsoft Windows [Version 10.0.26200.7623]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Dell>icacls file1.txt /grant %username%:R
file1.txt: The system cannot find the file specified.
Successfully processed 0 files; Failed processing 1 files

C:\Users\Dell>
```

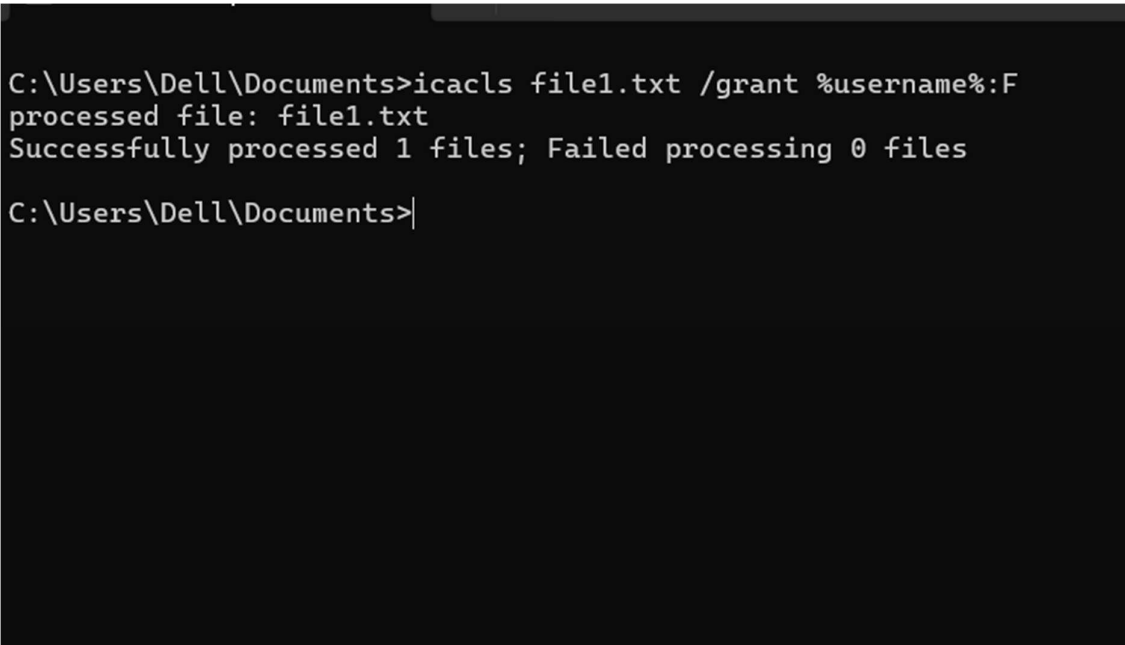

18. Add write permission to owner, no permission to others.



```
Command Prompt
C:\Users\Dell\Documents>icacls file1.txt /grant %username%:W /remove Everyone
processed file: file1.txt
Successfully processed 1 files; Failed processing 0 files

C:\Users\Dell\Documents>
```

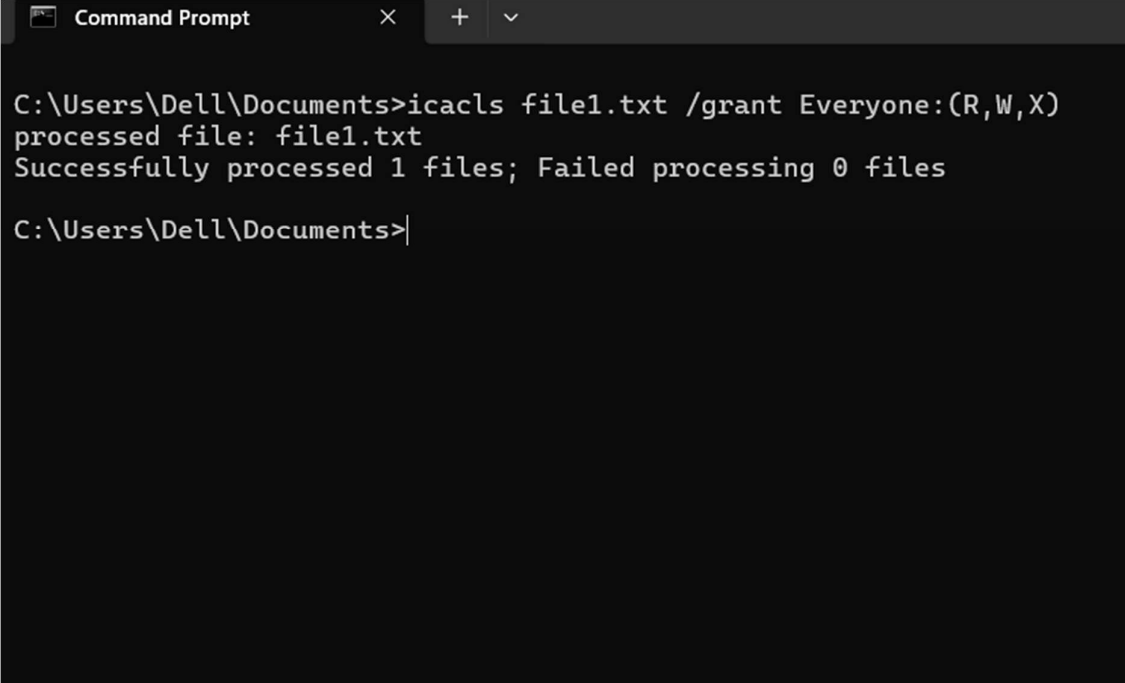
19. Assign permission to users.



```
C:\Users\Dell\Documents>icacls file1.txt /grant %username%:F
processed file: file1.txt
Successfully processed 1 files; Failed processing 0 files

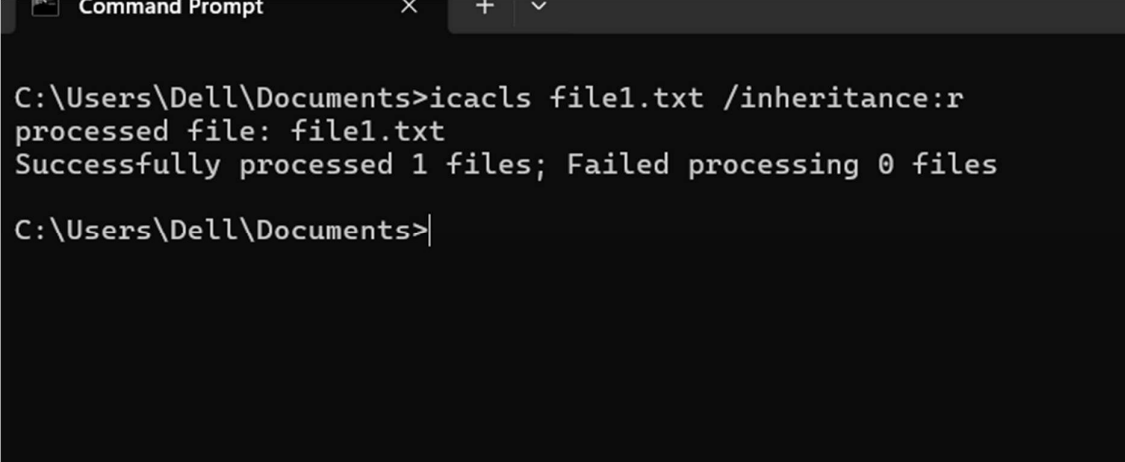
C:\Users\Dell\Documents>
```

20. Assign R/W/X to others.



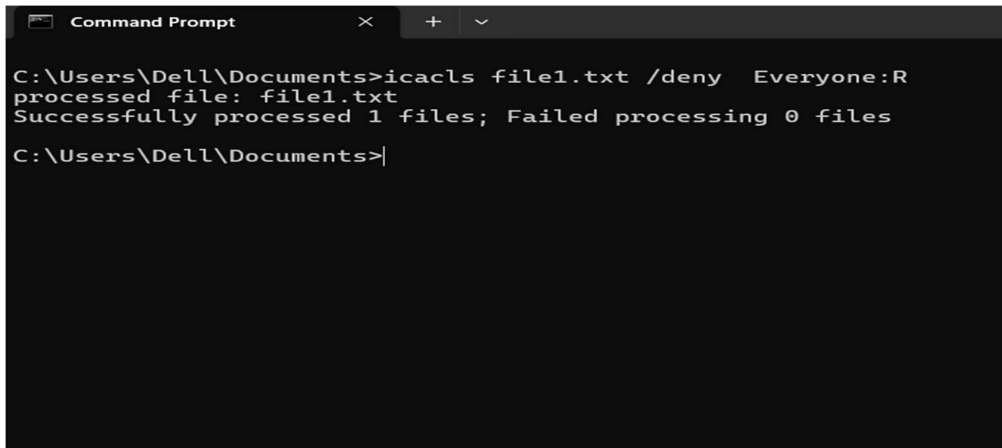
```
Command Prompt
C:\Users\Dell\Documents>icacls file1.txt /grant Everyone:(R,W,X)
processed file: file1.txt
Successfully processed 1 files; Failed processing 0 files
C:\Users\Dell\Documents>
```

21. Remove all permissions from all users.



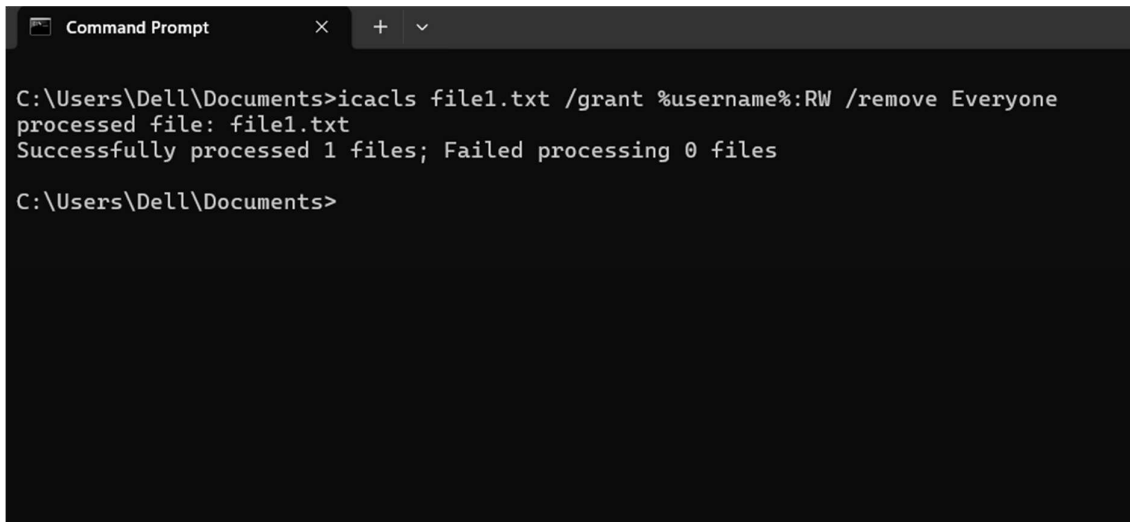
```
Command Prompt
C:\Users\Dell\Documents>icacls file1.txt /inheritance:r
processed file: file1.txt
Successfully processed 1 files; Failed processing 0 files
C:\Users\Dell\Documents>
```

22. Remove read permission using absolute mode.



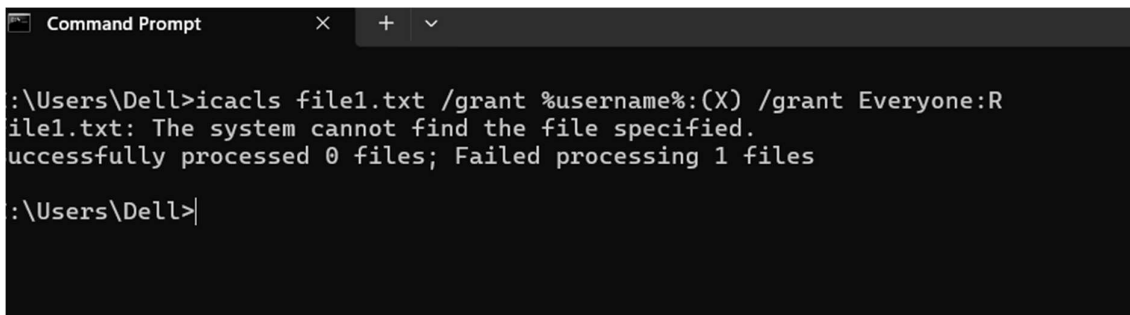
```
Command Prompt
C:\Users\Dell\Documents>icacls file1.txt /deny Everyone:R
processed file: file1.txt
Successfully processed 1 files; Failed processing 0 files
C:\Users\Dell\Documents>
```

23. Set R/W to owner, no permission to group & others.



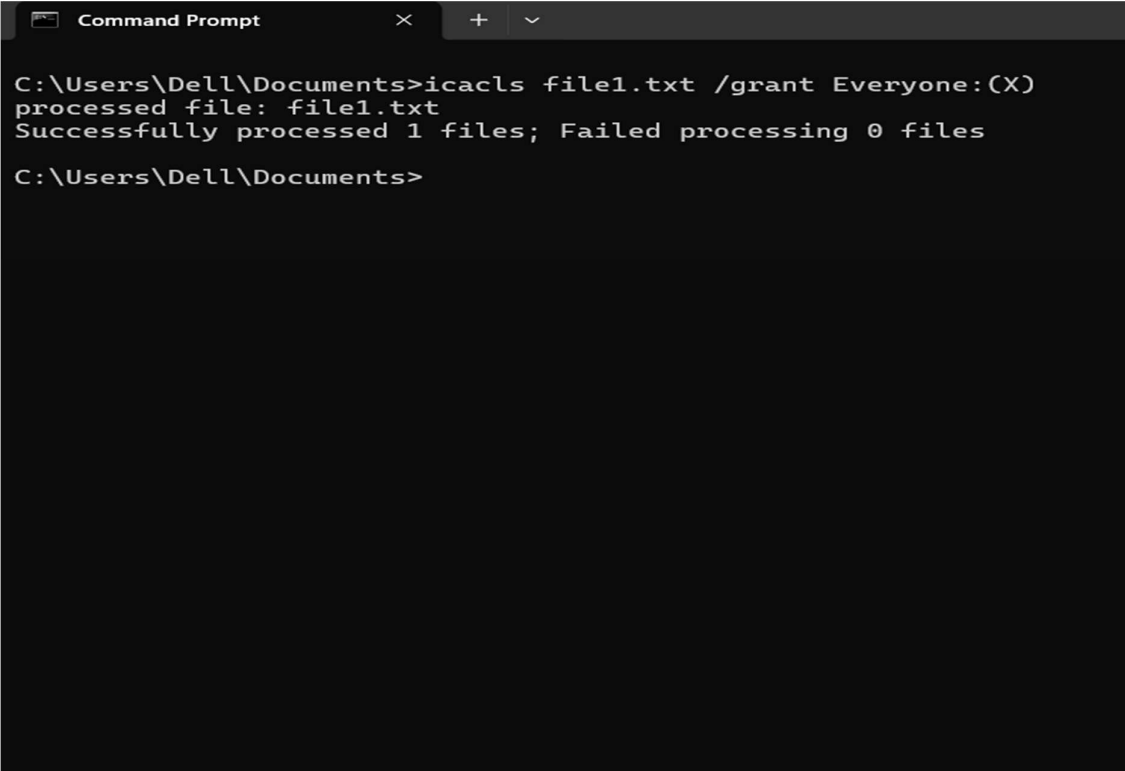
```
Command Prompt
C:\Users\Dell\Documents>icacls file1.txt /grant %username%:RW /remove Everyone
processed file: file1.txt
Successfully processed 1 files; Failed processing 0 files
C:\Users\Dell\Documents>
```

24. Add execute to owner, read to group & other.



```
Command Prompt
C:\Users\Dell>icacls file1.txt /grant %username%:(X) /grant Everyone:R
file1.txt: The system cannot find the file specified.
Successfully processed 0 files; Failed processing 1 files
C:\Users\Dell>
```

25. Add execute permission to all users.



```
Command Prompt
C:\Users\Dell\Documents>icacls file1.txt /grant Everyone:(X)
processed file: file1.txt
Successfully processed 1 files; Failed processing 0 files
C:\Users\Dell\Documents>
```