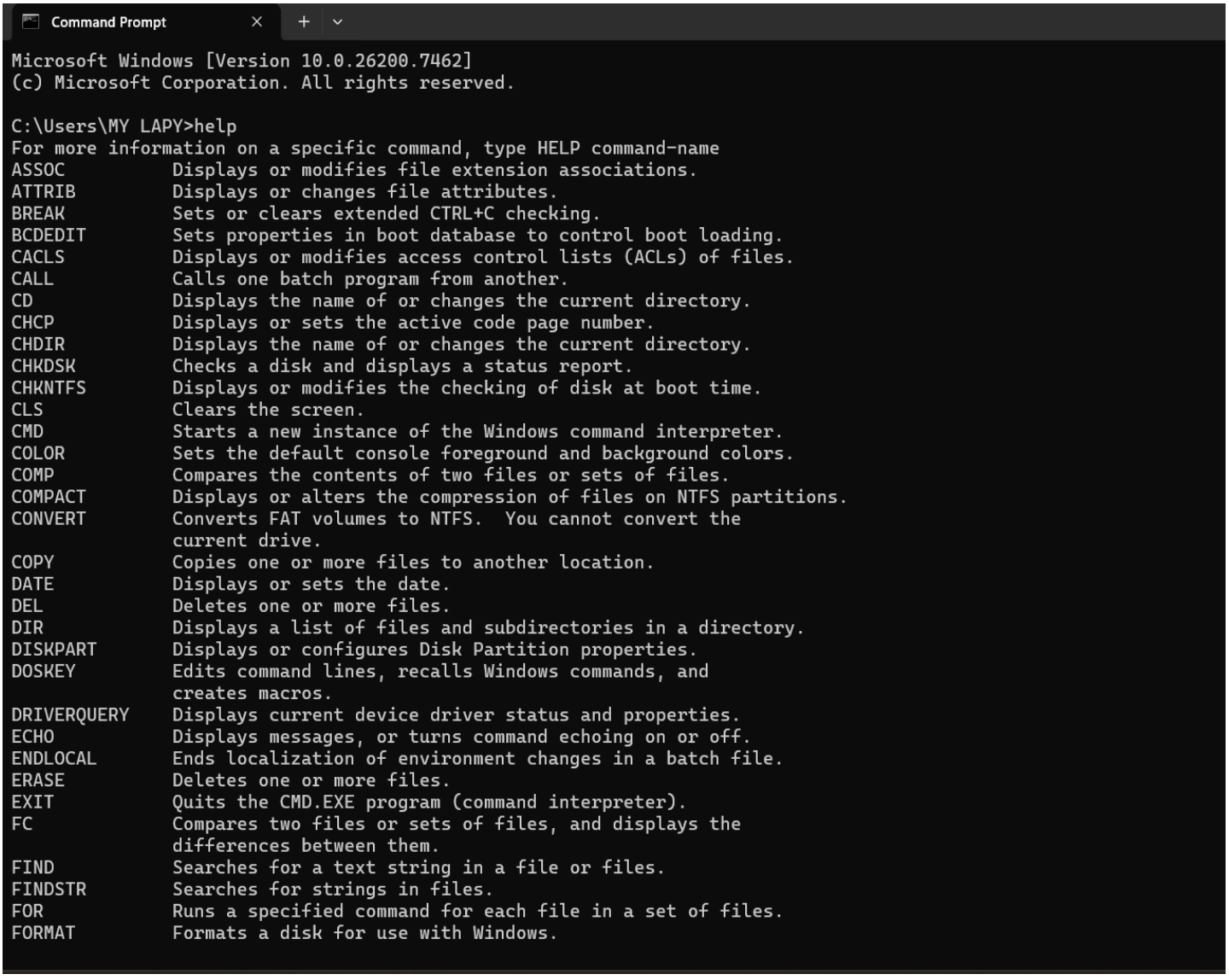
PRACTICAL - 1

John has recently started a new job as system administrator in MNC. He is dealing with computers having different operating systems such as Windows, LINUX and UNIX. How will he be able to interact with the system by using different operating system commands for the following operation?

Que.1. Display the user manual of any command that we can run on the terminal.



```
FSUTIL          Displays or configures the file system properties.
FTYPE           Displays or modifies file types used in file extension
                associations.
GOTO            Directs the Windows command interpreter to a labeled line in
                a batch program.
GPRESULT        Displays Group Policy information for machine or user.
HELP            Provides Help information for Windows commands.
ICACLS          Display, modify, backup, or restore ACLs for files and
                directories.
IF              Performs conditional processing in batch programs.
LABEL           Creates, changes, or deletes the volume label of a disk.
MD              Creates a directory.
MKDIR           Creates a directory.
MKLINK          Creates Symbolic Links and Hard Links
MODE            Configures a system device.
MORE            Displays output one screen at a time.
MOVE            Moves one or more files from one directory to another
                directory.
OPENFILES       Displays files opened by remote users for a file share.
PATH            Displays or sets a search path for executable files.
PAUSE           Suspends processing of a batch file and displays a message.
POPD            Restores the previous value of the current directory saved by
                PUSHD.
PRINT           Prints a text file.
PROMPT          Changes the Windows command prompt.
PUSHD           Saves the current directory then changes it.
RD              Removes a directory.
RECOVER         Recovers readable information from a bad or defective disk.
REM             Records comments (remarks) in batch files or CONFIG.SYS.
REN             Renames a file or files.
RENAME          Renames a file or files.
REPLACE         Replaces files.
RMDIR           Removes a directory.
ROBOCOPY        Advanced utility to copy files and directory trees
SET             Displays, sets, or removes Windows environment variables.
SETLOCAL        Begins localization of environment changes in a batch file.
SC              Displays or configures services (background processes).
SCHTASKS        Schedules commands and programs to run on a computer.
SHIFT           Shifts the position of replaceable parameters in batch files.
SHUTDOWN        Allows proper local or remote shutdown of machine.
SORT            Sorts input.
```

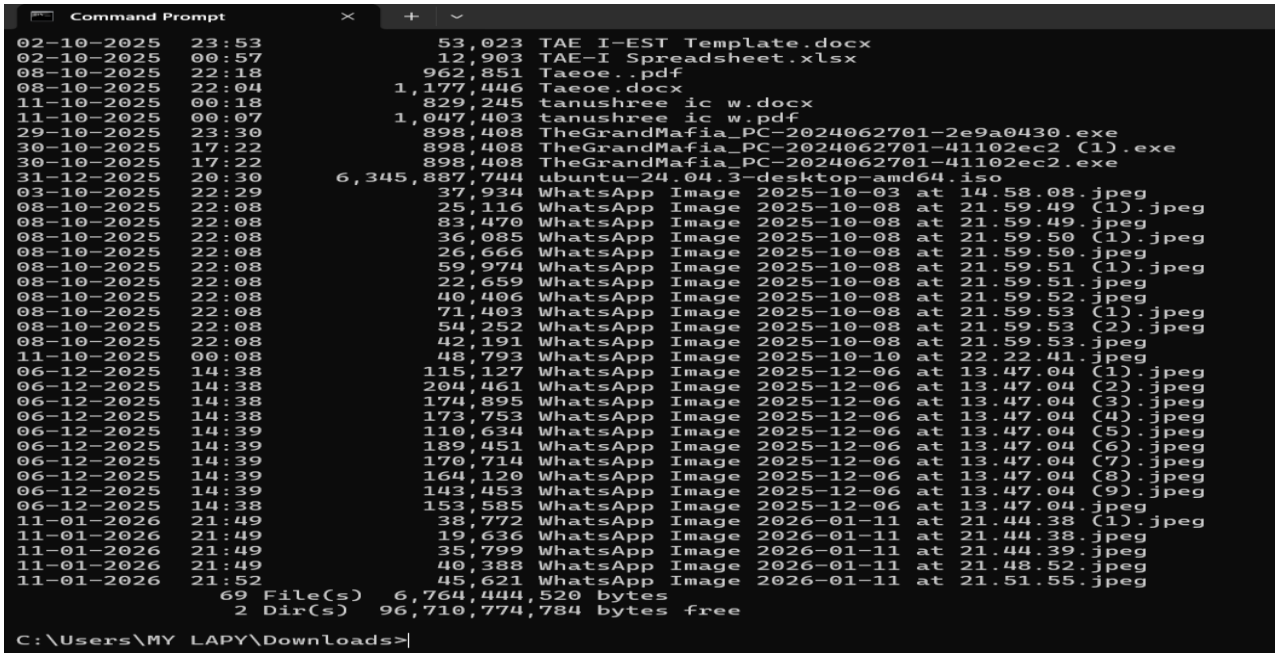
```
REPLACE         Replaces files.
RMDIR           Removes a directory.
ROBOCOPY        Advanced utility to copy files and directory trees
SET             Displays, sets, or removes Windows environment variables.
SETLOCAL        Begins localization of environment changes in a batch file.
SC              Displays or configures services (background processes).
SCHTASKS        Schedules commands and programs to run on a computer.
SHIFT           Shifts the position of replaceable parameters in batch files.
SHUTDOWN        Allows proper local or remote shutdown of machine.
SORT            Sorts input.
START           Starts a separate window to run a specified program or command.
SUBST           Associates a path with a drive letter.
SYSTEMINFO      Displays machine specific properties and configuration.
TASKLIST        Displays all currently running tasks including services.
TASKKILL        Kill or stop a running process or application.
TIME            Displays or sets the system time.
TITLE           Sets the window title for a CMD.EXE session.
TREE            Graphically displays the directory structure of a drive or
                path.
TYPE            Displays the contents of a text file.
VER             Displays the Windows version.
VERIFY          Tells Windows whether to verify that your files are written
                correctly to a disk.
VOL             Displays a disk volume label and serial number.
XCOPY           Copies files and directory trees.
WMIC            Displays WMI information inside interactive command shell.

For more information on tools see the command-line reference in the online help.

C:\Users\MY LAPY>
```

2. Change the current working directory of the user

```
Microsoft Windows [Version 10.0.26200.7462]
(c) Microsoft Corporation. All rights reserved.

C:\Users\MY LAPY>cd Downloads

C:\Users\MY LAPY\Downloads>
```

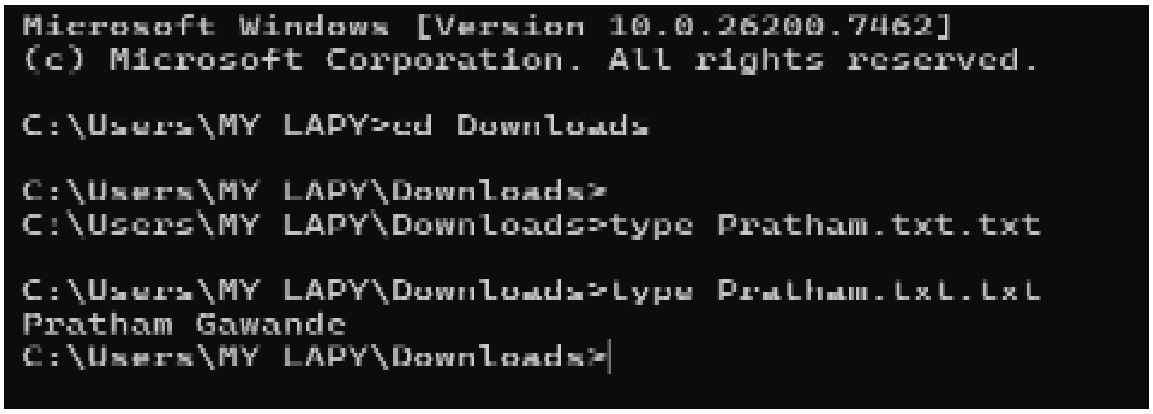
3. Lists all the contents in the current working directory

```
C:\Users\MY LAPY\Downloads>dir
 Volume in drive C has no label.
 Volume Serial Number is DC74-4D01

 Directory of C:\Users\MY LAPY\Downloads

12-01-2026  23:02    <DIR>          .
12-01-2026  22:23    <DIR>          ..
05-10-2025  15:25         2,181,474 2024-25 Model EVS Project Report and Guidelines.docx
05-10-2025  13:34         1,146,952 2024-25 Model EVS Project Report and Guidelines.pdf
05-10-2025  15:31           560,238 CAO TAE1-PDF.pdf
19-09-2025  11:14        10,791,864 ChromeSetup.exe
21-09-2025  22:46        93,509,904 CodeTantra.SEA-x64-4.0.0.exe
03-11-2025  23:19        93,695,464 CodeTantra.SEA-x64-4.2.0.exe
06-01-2026  22:50       100,501,080 CodeTantra.SEA-x64-4.3.0.exe
03-10-2025  00:01           827,971 f report oe.pdf
11-11-2025  13:12           328,972 GeoCivic.pdf
11-11-2025  13:17           326,137 GeoCivic1.pdf
12-01-2026  21:38        66,292,520 Git-2.52.0-64-bit.exe
18-11-2025  22:42            12,039 IC Eligibility Form 2025-2026 - Basketball (M) (1).docx
18-11-2025  22:41           157,882 IC Eligibility Form 2025-2026 - Basketball (M) (1).pdf
18-11-2025  22:41           157,882 IC Eligibility Form 2025-2026 - Basketball (M).pdf
05-10-2025  13:33           322,625 Mentee Form CSE .pdf
12-01-2026  23:02         5,312,954 Practical List Session 2025-26 (EVEN).PDF
12-01-2026  22:09           817,295 prelab (1).pdf
11-01-2026  21:18           307,745 PreLab.docx
11-01-2026  21:05           346,980 PreLab.pdf
11-01-2026  22:06           453,255 PreLab1.pdf
16-10-2025  14:40         8,217,040 RobloxPlayerInstaller-CT88W8PCB6.exe
16-10-2025  14:40         8,217,040 RobloxPlayerInstaller-JFTM9K4MM9.exe
27-09-2025  15:55         8,284,112 RobloxPlayerInstaller-XBPMWF3YRB.exe
31-12-2025  21:00         1,936,744 rufus-4.11.exe
05-10-2025  13:34         1,473,789 Sahil EVS edited.pdf
03-10-2025  00:05           257,327 sahil mech-tae^LM(^LMfinal)[1].pdf
06-01-2026  22:02           146,074 Sb Jain 2nd year Training Schedule.pdf
11-10-2025  00:18           736,562 shrijee ic.pdf
03-10-2025  22:48           877,412 tae 1 oe.. (1)...pdf
03-10-2025  22:31           148,164 tae 1 oe.. (1).docx
03-10-2025  22:31           374,326 tae 1 oe.. (1).pdf
03-10-2025  00:18           729,500 tae 1 oe.pdf
```

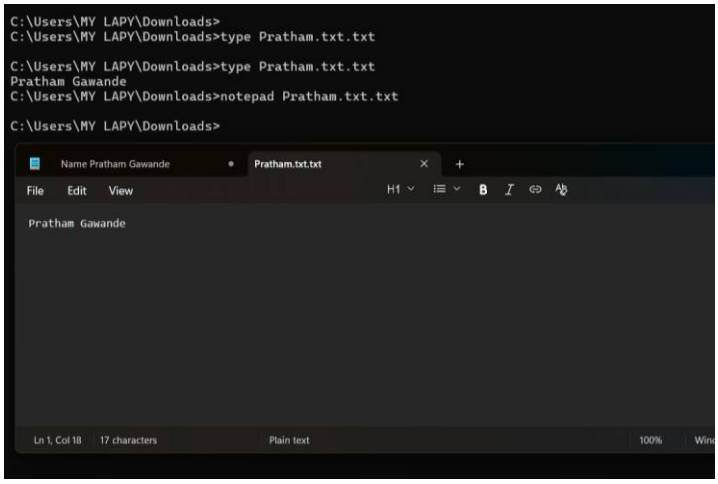


4. Read, modify or concatenate text files

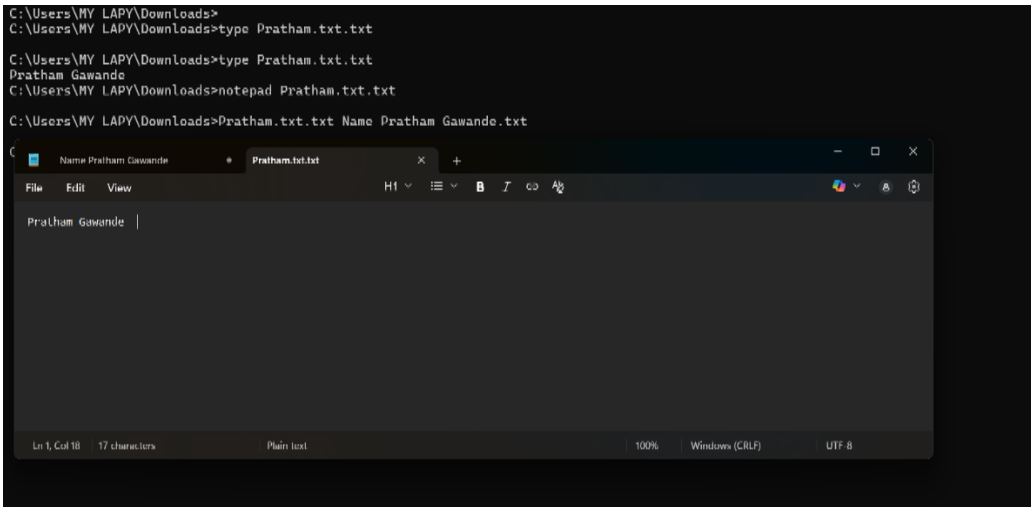
- Read a text file:



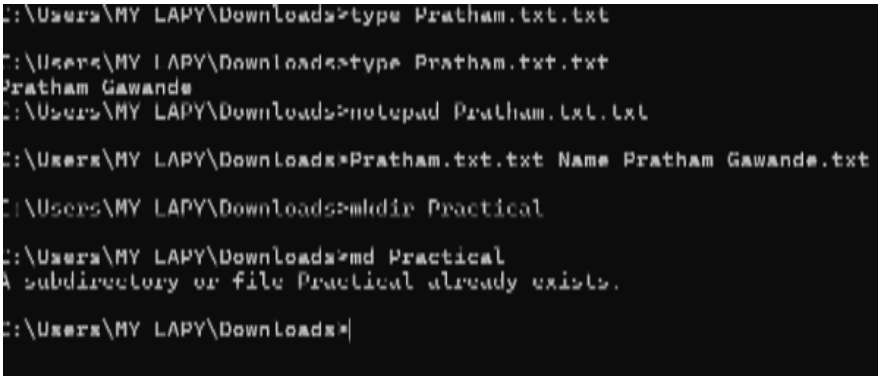
- Modify a text file:



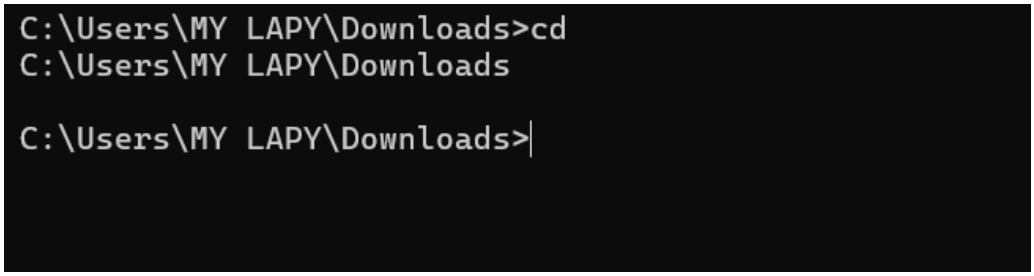
- Concatenate text files:



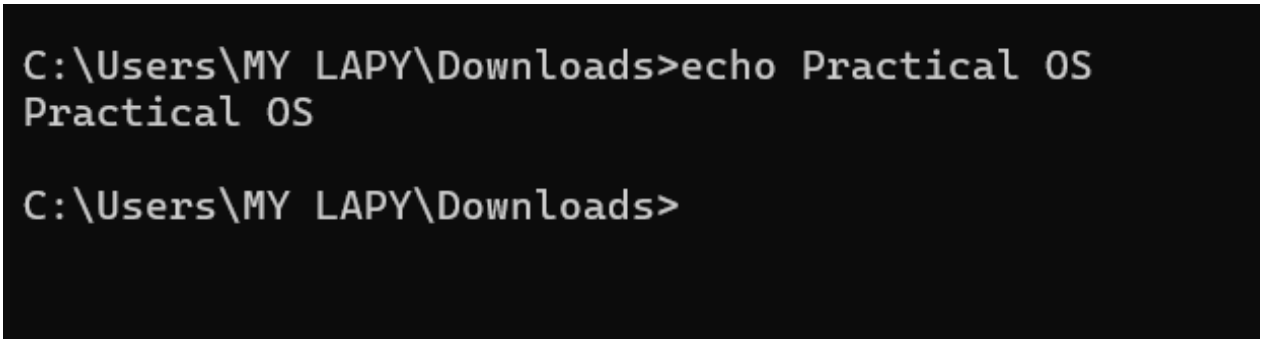
5. Create a new directory under any directory



6. Display the current working directory of the terminal



7. Write its arguments to standard output



8. Remove a file.

```
C:\Users\MY LAPY\Downloads>del hi.txt

C:\Users\MY LAPY\Downloads>
```

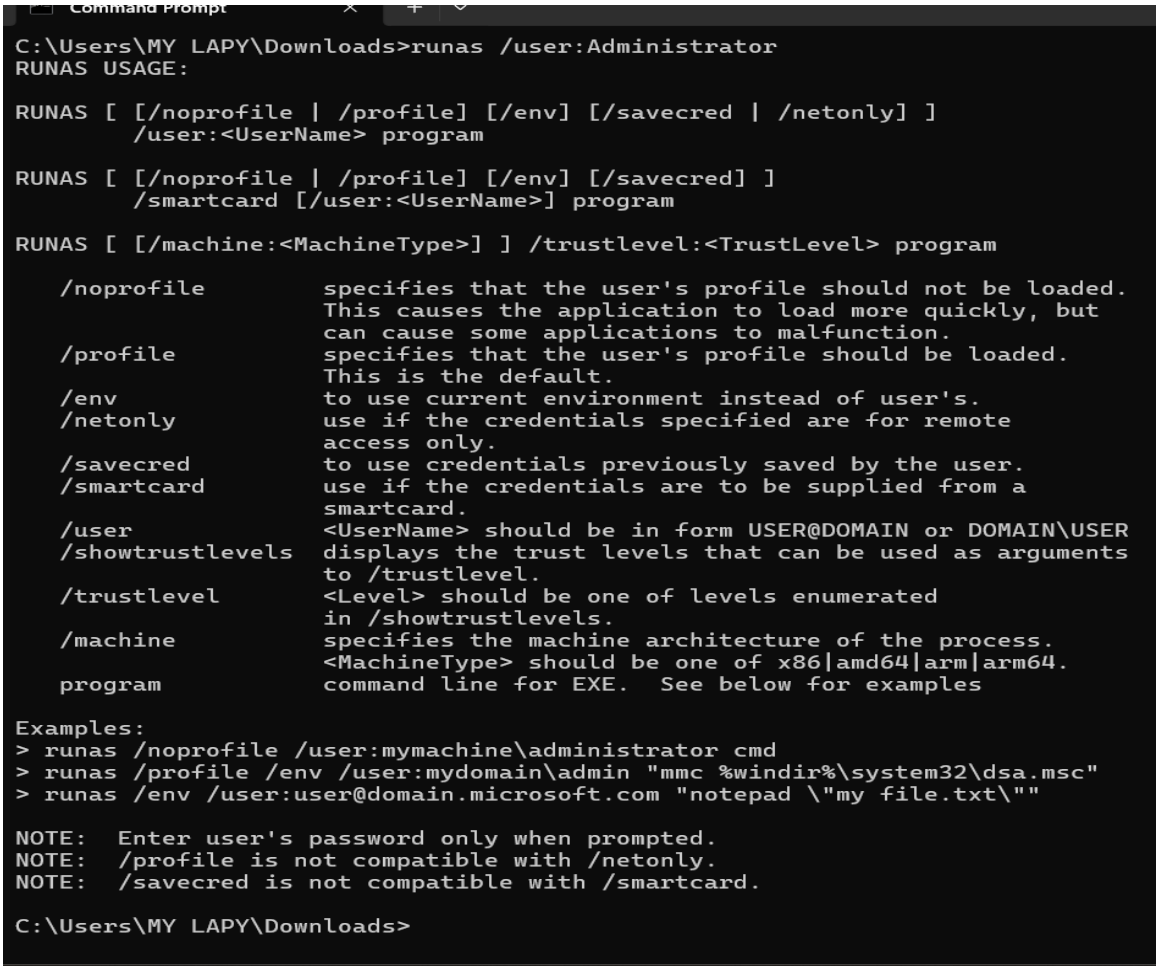
9. Delete a directory

```
C:\Users\MY LAPY\Downloads>rmdir system

C:\Users\MY LAPY\Downloads>
```

10. Copy a file or directory

```
C:\Users\MY LAPY\Downloads>copy Pratham.txt Name Pratham Gawande.txt
The system cannot find the file specified.

C:\Users\MY LAPY\Downloads>copy Pratham.txt.txt hi.txt
Overwrite hi.txt? (Yes/No/All): All
        1 file(s) copied.

C:\Users\MY LAPY\Downloads>
```

11. Switch to root-user



12. Moves files and directories from one directory to another

```
C:\Users\MY LAPY\Downloads>move Pratham.txt.txt D:\Desktop
        1 file(s) moved.
```

13. Search for a particular string/word in a text file

```
C:\Users\MY LAPY\Downloads>find "hi" hi.txt

---------- HI.TXT
```

14. Print the top N number of data of the given input

```
C:\Users\MY LAPY\Downloads>more hi.txt
Pratham
Isha
Vedant
Arpit
Sarth
```

15. Print the last N number of data of the given input

```
C:\Users\MY LAPY\Downloads>type hi.txt
Pratham
Isha
Vedant
Arpit
Sarth
C:\Users\MY LAPY\Downloads>
```

16. Remove read permission from owner of the file

```
C:\Users\MY LAPY\Downloads>icacls file.txt /deny "MY LAPY":R
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

17. Add read permission to owner plus re move write permission and add write permission to group

```
C:\Users\MY LAPY\Downloads>icacls file.txt /grant "MY LAPY":R
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

18. Add write permission to owner no permission to others

```
C:\Users\MY LAPY\Downloads>icacls file.txt /grant "MY LAPY":W
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

19. Assign permission to users

```
C:\Users\MY LAPY\Downloads>icacls file.txt /grant "MY LAPY:F
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

20. Assign R/W/X to others

```
C:\Users\MY LAPY\Downloads>icacls file.txt /grant "MY LAPY:F
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

21. Remove all permission from all users

```
C:\Users\MY LAPY\Downloads>icacls file.txt /remove Everyone
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files

C:\Users\MY LAPY\Downloads>
```

22. Remove read permission from user using absolute mode

```
C:\Users\MY LAPY\Downloads>icacls file.txt /deny "MY LAPY":R
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

23. Add R/w permission to owner no permission to group and no permission to other using absolute mode

```
C:\Users\MY LAPY\Downloads>icacls file.txt /grant "MY LAPY":RW
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files

C:\Users\MY LAPY\Downloads>
```

```
C:\Users\MY LAPY\Downloads>icacls file.txt /remove Everyone
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files

C:\Users\MY LAPY\Downloads>
```

24. Add execute permission to owner, read permission to group and other

```
C:\Users\MY LAPY\Downloads>icacls file.txt /grant "MY LAPY":RX Everyone:R
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files

C:\Users\MY LAPY\Downloads>
```

25. Add execute permission to all user

```
C:\Users\MY LAPY\Downloads>icacls file.txt /grant Everyone:RX
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files

C:\Users\MY LAPY\Downloads>
```