Q1 .Display the user manual of any command that we can run on the terminal'

```
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.
```

Q2. Change the current working directory of the user

```
C:\Users\admin>cd/

C:\>DRT
'DRT' is not recognized as an internal or external command,
operable program or batch file.

C:\>DTR
'DTR' is not recognized as an internal or external command,
operable program or batch file.

C:\>DIR
 Volume in drive C has no label.
 Volume Serial Number is B800-C8C0

 Directory of C:\

08/22/2024  12:09 PM    <DIR>          $WINDOWS.~BT
08/22/2024  12:24 PM    <DIR>          $WINDOWS.~LS
08/28/2024  10:30 AM    <DIR>          Dev-Cpp
03/22/2013  12:35 PM           316,416 DIFxAPI.dll
05/14/2013  07:07 AM         2,486,547 drv32.cab
12/05/2024  09:21 PM    <DIR>          English
05/14/2013  07:07 AM           117,030 hp100632.cat
05/14/2013  07:07 AM           113,380 hp100664.cat
04/15/2013  09:38 AM                48 HP1006SU.VER
12/05/2024  09:48 PM           116,720 HPLJP1000_P1500_Series.log
12/05/2024  09:29 PM         3,771,959 HPLJP1000_P1500_Series1.log
05/14/2013  07:07 AM             9,775 HPLJP1005.INF
03/13/2023  10:26 AM    <DIR>          inetpub
03/23/2023  07:08 AM             1,624 install.wim
08/26/2024  10:49 AM    <DIR>          Intel
03/22/2013  12:35 PM            14,538 license.txt
03/22/2013  12:35 PM             2,137 License7z.txt
01/12/2026  11:58 PM    <DIR>          OSLAB_CM24082
05/14/2013  07:07 AM           223,359 P1005.img
05/14/2013  07:07 AM           223,487 P1006.img
05/14/2013  07:07 AM           249,615 P1505.img
12/07/2019  02:44 PM    <DIR>          PerfLogs
05/14/2013  07:11 AM         1,712,128 ProductInst.exe
12/27/2025  12:30 PM    <DIR>          Program Files
08/24/2025  06:15 PM    <DIR>          Program Files (x86)
03/22/2013  12:35 PM               828 properties.ini
05/14/2013  07:08 AM            69,632 Setup.exe
```

```
03/22/2013  12:35 PM               828 properties.ini
05/14/2013  07:08 AM            69,632 Setup.exe
05/14/2013  07:08 AM           204,800 Strings.dll
03/16/2023  01:56 AM    <DIR>          Users
01/12/2026  11:51 PM    <DIR>          Windows
              18 File(s)      9,634,023 bytes
              12 Dir(s)  39,314,866,176 bytes free

C:\>OS*
'OS*' is not recognized as an internal or external command,
operable program or batch file.

C:\>cd/OS*
```

Q3 . List all the contents in the current working directory

```
08/22/2024  12:09 PM    <DIR>          $WINDOWS.~BT
08/22/2024  12:24 PM    <DIR>          $WINDOWS.~LS
08/28/2024  10:30 AM    <DIR>          Dev-Cpp
03/22/2013  12:35 PM          316,416 DIFxAPI.dll
05/14/2013  07:07 AM        2,486,547 drv32.cab
12/05/2024  09:21 PM    <DIR>          English
05/14/2013  07:07 AM          117,030 hp100632.cat
05/14/2013  07:07 AM          113,380 hp100664.cat
04/15/2013  09:38 AM               48 HP1006SU.VER
12/05/2024  09:48 PM          116,720 HPLJP1000_P1500_Series.
12/05/2024  09:29 PM        3,771,959 HPLJP1000_P1500_Series1
05/14/2013  07:07 AM            9,775 HPLJP1005.INF
03/13/2023  10:26 AM    <DIR>          inetpub
03/23/2023  07:08 AM            1,624 install.wim
08/26/2024  10:49 AM    <DIR>          Intel
03/22/2013  12:35 PM           14,538 license.txt
03/22/2013  12:35 PM            2,137 License7z.txt
01/12/2026  11:58 PM    <DIR>          OSLAB_CM24082
05/14/2013  07:07 AM          223,359 P1005.img
05/14/2013  07:07 AM          223,487 P1006.img
05/14/2013  07:07 AM          249,615 P1505.img
12/07/2019  02:44 PM    <DIR>          PerfLogs
05/14/2013  07:11 AM        1,712,128 ProductInst.exe
12/27/2025  12:30 PM    <DIR>          Program Files
08/24/2025  06:15 PM    <DIR>          Program Files (x86)
03/22/2013  12:35 PM              828 properties.ini
05/14/2013  07:08 AM           69,632 Setup.exe
05/14/2013  07:08 AM          204,800 Strings.dll
03/16/2023  01:56 AM    <DIR>          Users
01/12/2026  11:51 PM    <DIR>          Windows
              18 File(s)      9,634,023 bytes
              12 Dir(s)  39,314,866,176 bytes free
```

Q4 . Read, modify or concatenate text files.

```
C:\OSLAB_CM24082>type
The syntax of the command is incorrect.

C:\OSLAB_CM24082>echo Hello > file.txt

C:\OSLAB_CM24082>type file.txt
Hello
```

Q5 . Create a new directory under any directory.

```
C:\OSLAB_CM24082>mkdir demo

C:\OSLAB_CM24082>dir
 Volume in drive C has no label.
 Volume Serial Number is B800-C8C0

 Directory of C:\OSLAB_CM24082

01/13/2026  02:31 PM    <DIR>          .
01/13/2026  02:31 PM    <DIR>          ..
01/13/2026  02:31 PM    <DIR>          demo
01/13/2026  02:25 PM                 8 file.txt
01/12/2026  11:58 PM           829,444 practical 1 output.html
01/12/2026  11:58 PM    <DIR>          practical 1 output_files
12/27/2025  07:25 PM         1,072,992 prelab output.pdf
               3 File(s)      1,902,444 bytes
               4 Dir(s)  39,528,497,152 bytes free
```

Q6. Display the current working directory of the terminal.

```
C:\OSLAB_CM24082>cd
C:\OSLAB_CM24082

C:\OSLAB_CM24082>
```

Q7 . Write its arguments to standard output.

```
C:\OSLAB_CM24082>cd
C:\OSLAB_CM24082

C:\OSLAB_CM24082>echo Hello World
Hello World
```

Q8. Remove a file

```
C:\OSLAB_CM24082>echo Test > temp.txt

C:\OSLAB_CM24082>del temp.txt
```

Q9. Delete a directory

```
C:\OSLAB_CM24082>mkdir test

C:\OSLAB_CM24082>rmdir test
```

Q10 . Copy a file or directory

```
C:\OSLAB_CM24082>echo CopyTest > a.txt

C:\OSLAB_CM24082>copy a.txt b.txt
        1 file(s) copied.
```

```
C:\OSLAB_CM24082>xcopy test test2
File not found - test
0 File(s) copied
C.\OSLAB_CM24082>
```

Q11. Switch to root-user.

```
C:\OSLAB_CM24082>Switch to root user is not applicable in Windows OS
'Switch' is not recognized as an internal or external command,
operable program or batch file.
```

Q12. Moves files and directory from one directory to another.

```
C:\OSLAB_CM24082>move test.txt D:\OSLAB_CM24082\
The system cannot find the file specified.

C:\OSLAB_CM24082>move oldfolder newfolder
The system cannot find the file specified.
```

Q13 . Search for a particular string/word in a text file.

```
C:\OSLAB_CM24082>find "hello" test.txt
File not found - TEST.TXT
C.\OSLAB_CM24082>
```

Q14. Print the top N-number of data of the given input

```
C:\OSLAB_CM24082>more  test.txt
Cannot access file C:\OSLAB_CM24082\test.txt
```

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

```
C:\OSLAB_CM24082>powershell -command "Get-Content test.txt | Select-Object -Last 5"
Get-Content : Cannot find path 'C:\OSLAB_CM24082\test.txt' because it does not exist.
At line:1 char:1
+ Get-Content test.txt | Select-Object -Last 5
+ ~~~~~~~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (C:\OSLAB_CM24082\test.txt:String) [Get-Content], ItemNotFoundException
    + FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.GetContentCommand
```

Q16. Remove read permission from owner of the file

```
C:\OSLAB_CM24082>icacls file.txt
file.txt BUILTIN\Administrators:(I)(F)
         NT AUTHORITY\SYSTEM:(I)(F)
         BUILTIN\Users:(I)(RX)
         NT AUTHORITY\Authenticated Users:(I)(M)

Successfully processed 1 files; Failed processing 0 files
```

Q17. Add read permission to owner plus re move write permission and add write

Permission to group

```
C:\OSLAB_CM24082>icacls filr.txt /grant %username%:R
filr.txt: The system cannot find the file specified.
Successfully processed 0 files; Failed processing 1 files

C:\OSLAB_CM24082>icacls file.txt /deny %username%:W
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files

C:\OSLAB_CM24082>icacls file.txt /grant Users:W
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

Q18. Add write permission to owner no permission to others.

```
C:\OSLAB_CM24082>icacls file.txt /inheriance:r
Invalid parameter "/inheriance:r"

C:\OSLAB_CM24082>icacls file.txt /grant %username%:W
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

Q19. Assign permission to users.

```
C:\OSLAB_CM24082>icacls file.txt /grant %username%:F
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

Q20 . Assign R/W/X to others.

```
C:\OSLAB_CM24082>icacls file.txt /grantEveryone:F
Invalid parameter "/grantEveryone:F"

C:\OSLAB_CM24082>
```

Q21. Remove all permission from all users

```
C:\OSLAB_CM24082>icacls file.txt /inheritance:r
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files

C:\OSLAB_CM24082>icacls file.txt /remove Everyone
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

Q22. Remove read permission from user using absolute mode

```
C:\OSLAB_CM24082>icacls file.txt /inheritance:r
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files

C:\OSLAB_CM24082>icacls file.txt /remove Everyone
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

Q23. Add R/w permission to owner no permission to group and no permission to Other

using absolute mode

```
C:\OSLAB_CM24082>icacls file.txt /inheritance:r
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files

C:\OSLAB_CM24082>icacls file.txt /grant %username%:RW
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

Q24. Add execute permission to owner, read permission to group and other.

```
C:\OSLAB_CM24082>icacls file.txt /grant %username%:X
Invalid parameter "admin:X"

C:\OSLAB_CM24082>icacls file.txt /grant Users:R
processed file: file.txt
Successfully processed 1 files; Failed processing 0 files
```

Q25 . Add execute permission to all user.

```
C:\OSLAB_CM24082>icacls file.txt /grant Everyone:X
Invalid parameter "Everyone:X"
```