

PRACTICAL 01:-

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

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```
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.1
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

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```
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 remove 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 /inheritance:r  
Invalid parameter "/inheritance: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"
```

