

DOS *COMMANDS*

Sr. No	Commands	Description
1	ASSOC	Displays or modifies file extension associations.
2	ATTRIB	Displays or changes file attributes.
3	BREAK	Sets or clears extended CTRL+C checking.
4	BCDEDIT	Sets properties in boot database to control boot loading.
5	CACLS	Displays or modifies access control lists (ACLs) of files.
6	CALL	Calls one batch program from another.
7	CD	Displays the name of or changes the current directory.
8	CHCP	Displays or sets the active code page number.
9	CHDIR	Displays the name of or changes the current directory.
10	CHKDSK	Checks a disk and displays a status report.
11	CHKNTFS	Displays or modifies the checking of disk at boot time.
12	CLS	Clears the screen.
13	CMD	Starts a new instance of the Windows command interpreter.
14	COLOR	Sets the default console foreground and background colors.
15	COMP	Compares the contents of two files or sets of files.
16	COMPACT	Displays or alters the compression of files on NTFS partitions.
17	CONVERT	Converts FAT volumes to NTFS. You cannot convert the current drive.
18	COPY	Copies one or more files to another location.
19	DATE	Displays or sets the date.
20	DEL	Deletes one or more files.
21	DIR	Displays a list of files and subdirectories in a directory.
22	DISKPART	Displays or configures Disk Partition properties.
23	DOSKEY	Edits command lines, recalls Windows commands, and creates macros.
24	DRIVERQUERY	Displays current device driver status and properties.
25	ECHO	Displays messages, or turns command echoing on or off.
26	ENDLOCAL	Ends localization of environment changes in a batch file.
27	ERASE	Deletes one or more files.
28	EXIT	Quits the CMD.EXE program (command interpreter).
29	FC	Compares two files or sets of files, and displays the differences between them.
30	FIND	Searches for a text string in a file or files.
31	FINDSTR	Searches for strings in files.

32	FOR	Runs a specified command for each file in a set of files.
33	FORMAT	Formats a disk for use with Windows.
34	FSUTIL	Displays or configures the file system properties.
35	FTYPE	Displays or modifies file types used in file extension associations.
36	GOTO	Directs the Windows command interpreter to a labeled line in a batch program.
37	GPRESULT	Displays Group Policy information for machine or user.
38	GRAFTABL	Enables Windows to display an extended character set in graphics mode.
39	HELP	Provides Help information for Windows commands.
40	ICACLS	Display, modify, backup, or restore ACLs for files and directories.
41	IF	Performs conditional processing in batch programs.
42	LABEL	Creates, changes, or deletes the volume label of a disk.
43	MD	Creates a directory.
44	MKDIR	Creates a directory.
45	MKLINK	Creates Symbolic Links and Hard Links
46	MODE	Configures a system device.
47	MORE	Displays output one screen at a time.
48	MOVE	Moves one or more files from one directory to another directory.
49	OPENFILES	Displays files opened by remote users for a file share.
50	PATH	Displays or sets a search path for executable files.
51	PAUSE	Suspends processing of a batch file and displays a message.
52	POPD	Restores the previous value of the current directory saved by PUSHHD.
53	PRINT	Prints a text file.
54	PROMPT	Changes the Windows command prompt.
55	PUSHD	Saves the current directory then changes it.
56	RD	Removes a directory.
57	RECOVER	Recovers readable information from a bad or defective disk.
58	REM	Records comments (remarks) in batch files or CONFIG.SYS.
59	REN	Renames a file or files.
60	RENAME	Renames a file or files.
61	REPLACE	Replaces files.
62	RMDIR	Removes a directory.
63	ROBOCOPY	Advanced utility to copy files and directory trees

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

1) ASSOC

Description :-

- Displays or modifies file extension associations

Syntax :-

- ASSOC [.ext[=[fileType]]]

.ext	Specifies the file extension to associate the file type with
fileType	Specifies the file type to associate with the file extension

Usage :-

- It is used to associate the extension which are not known to dos .
- So it can recognize the file with particular extension and call the corresponding program for executing that file associated with it .

```
D:\temp>assoc .txt
.txt=txtfilelegacy

D:\temp>assoc .msu=txtfilelegacy
.msu=txtfilelegacy

D:\temp>assoc | find "txtfilelegacy"
.msu=txtfilelegacy
.txt=txtfilelegacy

D:\temp>_
```

2) ATTRIB

Description :-

- Displays or changes file attributes.

Syntax :-

- ATTRIB [+R | -R] [+A | -A] [+S | -S] [+H | -H] [+O | -O] [+I | -I] [+X | -X] [+P | -P] [+U | -U][drive:][path][filename] [/S [/D]] [/L]

+	Sets an attribute.
-	Clears an attribute.
R	Read-only file attribute.
A	Archive file attribute.
S	System file attribute.
H	Hidden file attribute.
O	Offline attribute.
I	Not content indexed file attribute.
X	No scrub file attribute.
V	Integrity attribute.
P	Pinned attribute.
U	Unpinned attribute.
B	SMR Blob attribute.
[drive][path][filename]	Specifies a file or files for attrib to process.
/S	Processes matching files in the current folder
/D	Processes folders as well.
/L	Work on the attributes of the Symbolic Link versus the target of the Symbolic Link

Usage :-

- It is used to associate the extension which are not known to dos .
- So it can recognize the file with particular extension and call the corresponding program associated with it .

```
D:\temp>attrib
A          D:\temp\.txt
A   H      D:\temp\assoc.txt
A          D:\temp\harsh.chor
A          D:\temp\harsh.txt
A          D:\temp\s
A          D:\temp\SS_BE3_OS_PracAssignment.pdf

D:\temp>attrib -h "assoc.txt"

D:\temp>attrib +r "assoc.txt"

D:\temp>attrib +h "assoc.txt"

D:\temp>attrib
A          D:\temp\.txt
A   HR     D:\temp\assoc.txt
A          D:\temp\harsh.chor
A          D:\temp\harsh.txt
A          D:\temp\s
A          D:\temp\SS_BE3_OS_PracAssignment.pdf
```

3) BREAK

Description :-

- Sets or Clears Extended CTRL+C checking on DOS system
- This is present for Compatibility with DOS systems. It has no effect under Windows.

Syntax :-

- BREAK=[on|off]

Usage :-

- **Deprecated**
-

4) BCDEDIT

Description :-

- Boot Configuration Data Store Editor

Syntax :-

- bcdedit

Usage :-

- Boot Configuration Data (BCD) files provide a store that is used to describe boot applications and boot application settings.
- BCDEdit is a command-line tool for managing BCD. It can be used for a variety of purposes, including creating new stores, modifying existing stores, and adding boot menu options.

```
D:\temp>bcdedit

Windows Boot Manager
-----
identifier                {bootmgr}
device                    partition=\Device\HarddiskVolume1
path                      \EFI\MICROSOFT\BOOT\BOOTMGFW.EFI
description                Windows Boot Manager
locale                    en-US
inherit                    {globalsettings}
default                    {current}
resumeobject                {a8d53c9a-2a52-11ec-a2f3-bc17b8cbc0db}
displayorder                {current}
toolsdisplayorder            {memdiag}
timeout                    30

Windows Boot Loader
-----
identifier                {current}
device                    partition=C:
path                      \WINDOWS\system32\winload.efi
description                Windows 11
locale                    en-US
inherit                    {bootloadersettings}
recoverysequence            {a8d53c9d-2a52-11ec-a2f3-bc17b8cbc0db}
displaymessageoverride      Recovery
recoveryenabled              Yes
isolatedcontext              Yes
allowedinmemorysettings    0x15000075
osdevice                    partition=C:
systemroot                  \WINDOWS
resumeobject                {a8d53c9a-2a52-11ec-a2f3-bc17b8cbc0db}
nx                          OptIn
bootmenupolicy              Standard
hypervisorlaunchtype        Auto
```

5) CACLS

Description :-

- Displays or modifies access control lists (ACLs) of files

Syntax:-

- CACLS filename [/T] [/M] [/L] [/S[:SDDL]] [/E] [/C] [/G user:perm] [/R user [...]] [/P user:perm [...]] [/D user [...]]
-

6) CALL

Description :-

- Calls one batch program from another.

Syntax:-

- CALL [drive:][path]filename [batch-parameters]

Usage :-

- It is used to call (open) any file with the path specified after call command or call any program from other batch program.

```
D:\temp>call "d:\temp\harsh.txt"
```

7) CD

Description :-

- It is used to change directory also to display the name and path of directory.

Syntax:-

- CD [/D] [drive:][path]
- CD [..]

.. Specifies that you want to change to the parent directory.

Usage :

```
D:\temp>cd "D:\Professional\Software"  
  
D:\Professional\Software>cd  
D:\Professional\Software  
  
D:\Professional\Software>cd ..
```

8) CHCP**Description :-**

- Displays or sets the active code page number.

Syntax:-

- **CHCP[nnn]**
- nnn specifies a code page number.

Usage :

- The chcp command is used to supplement the international keyboard and character set information, allowing MS-DOS to be used in other countries and with different languages.
- Before the chcp command can be used, the nlsfunc must be loaded, and the country. sys must be loaded into the config

```
D:\Professional>chcp  
Active code page: 437  
  
D:\Professional>chcp 850  
Active code page: 850  
  
D:\Professional>chcp  
Active code page: 850
```

9) CHDIR :

- same as cd
-

10) CHKDSK

Description :-

- Checks a disk and displays a status report.

Syntax:-

- CHKDSK [volume[[path]filename]] [/F] [/V] [/R] [/X] [/I] [/C] [/L[:size]] [/B] [/scan] [/spotfix]

Options:-

- chkdsk cross-references the directory of files with the file system to verify that they match.

/f	fixes any structural issues with the file system and directory, correcting inconsistencies between the two.
/r	searches for and fixes corrupted parts of the hard drive (while also running chkdsk /f). Sometimes it can't fix the unusable or damaged sectors that it finds.
/x	dismounts a drive so that it can be checked and fixed. Running this command also runs /f.
/v	shows the path and name of all files while running a check.

Usage :

```
D:\Professional>chkdsk
The type of the file system is NTFS.
Volume label is User.

WARNING!  /F parameter not specified.
Running CHKDSK in read-only mode.

Stage 1: Examining basic file system structure ...
  625920 file records processed.
File verification completed.
Phase duration (File record verification): 5.50 seconds.
  41 large file records processed.
Phase duration (Orphan file record recovery): 1.53 milliseconds.
  0 bad file records processed.
Phase duration (Bad file record checking): 1.85 milliseconds.

Stage 2: Examining file name linkage ...
  305 reparse records processed.
  813566 index entries processed.
Index verification completed.
Phase duration (Index verification): 15.91 seconds.
  0 unindexed files scanned.
Phase duration (Orphan reconnection): 2.28 seconds.
  0 unindexed files recovered to lost and found.
Phase duration (Orphan recovery to lost and found): 3.14 milliseconds.
  305 reparse records processed.
Phase duration (Reparse point and Object ID verification): 11.04 milliseconds.

Stage 3: Examining security descriptors ...
Security descriptor verification completed.
Phase duration (Security descriptor verification): 5.46 milliseconds.
  93823 data files processed.
Phase duration (Data attribute verification): 2.36 milliseconds.
```

```
Windows has scanned the file system and found no problems.
No further action is required.
```

```
133335039 KB total disk space.
 99193696 KB in 531993 files.
 137744 KB in 93825 indexes.
   0 KB in bad sectors.
 696611 KB in use by the system.
 65536 KB occupied by the log file.
33306988 KB available on disk.

   4096 bytes in each allocation unit.
33333759 total allocation units on disk.
 8326747 allocation units available on disk.
Total duration: 23.73 seconds (23738 ms).

D:\Professional>
```

11) CHKNTFS

Description :-

- Displays and modifies the checking of disk at boot time.

Syntax:-

- CHKNTFS volume [...]
- CHKNTFS /D
- CHKNTFS /T[:time]
- CHKNTFS /X volume [...]
- CHKNTFS /C volume [...]

volume	Specifies the drive letter (followed by a colon), mount point, or volume name.
/D	Restores the machine to the default behavior; all drives are checked at boot time and chkdsk is run on those that are dirty.
/T	time Changes the AUTOCHK initiation countdown time to the specified amount of time in seconds. If time is not specified, displays the current setting.
/X	Excludes a drive from the default boot-time check. Excluded drives are not accumulated between command invocations.
/C	Schedules a drive to be checked at boot time; chkdsk will run if the drive is dirty.

Usage :-

- It basically displays whether the specified volume is dirty or is scheduled to be checked the next time the computer is started.

```
D:\Professional>chkntfs d:
The type of the file system is NTFS.
D: is not dirty.
```

12) CLS

Description :-

- Clears the screen

Syntax:-

- cls

```
D:\Professional>cls
```

13) CMD

Description :-

- Starts the new instance of windows command interpreter.

Syntax:-

- `cmd`
-

14) COLOR

Description :-

- Changes foreground and background of the

Syntax :-

- `color [attr]`

Color attributes are specified by TWO hex digits -- the first corresponds to the background; the second the foreground. Each digit can be any of the following values:

0 = Black	8 = Gray
1 = Blue	9 = Light Blue
2 = Green	A = Light Green
3 = Aqua	B = Light Aqua
4 = Red	C = Light Red
5 = Purple	D = Light Purple
6 = Yellow	E = Light Yellow
7 = White	F = Bright White

Usage :

```
D:\Professional>color 2
D:\Professional>_
```

15) COMP

Description :-

- Used to compare two files or set of files.

Syntax:-

- `COMP [data1] [data2] [/D] [/A] [/L] [/N=number] [/C] [/OFF[LINE]] [/M]`

data1	Specifies location and name(s) of first file(s) to compare.
data2	Specifies location and name(s) of second files to compare.
/D	Displays differences in decimal format.
/A	Displays differences in ASCII characters.
/L	Displays line numbers for differences.
/N=number	Compares only the first specified number of lines in each file.
/C	Disregards case of ASCII letters when comparing files.
/OFF[LINE]	Do not skip files with offline attribute set.
/M	Do not prompt for compare more files.

Usage :

```
D:\temp>comp harsh.txt smit.txt /a /n=100
Comparing harsh.txt and smit.txt...
Compare error at LINE 1
file1 = h
file2 = s
Compare error at LINE 1
file1 = a
file2 = m
Compare error at LINE 1
file1 = r
file2 = i
Compare error at LINE 1
file1 = s
file2 = t
Compare error at LINE 1
file1 = h
file2 = 
Compare error at LINE 1
file1 = 
file2 = s
Compare error at LINE 1
file1 = p
file2 = h
Compare error at LINE 1
file1 = t
file2 = h
Compare error at LINE 1
file1 = e
file2 = 
Compare error at LINE 1
file1 = l
file2 = 

10 mismatches - ending compare
```

16) COMPACT

Description :-

- Displays or alters the compression of files or directories on NTFS partitions.
- If used without parameters, compact displays the compression state of the current directory and any files it contains.

Syntax:

- compact [/C | /U] [/S[:dir]]

/C	Compresses the specified files. Directories will be marked so that files added afterward will be compressed unless /EXE is specified.
-----------	---

/S Performs the specified operation on files in the given directory and all subdirectories. Default "dir" is the current directory.

Usage :

```
D:\temp>COMPACT
```

```
Listing D:\temp\
```

```
New files added to this directory will not be compressed.
```

```
      0 :          0 = 1.0 to 1    .txt
     23 :          23 = 1.0 to 1    harsh.chor
     29 :          29 = 1.0 to 1    harsh.txt
      0 :          0 = 1.0 to 1     s
     28 :          28 = 1.0 to 1    smit.txt
  360498 :    360498 = 1.0 to 1    SS_BE3_OS_PracAssignment.pdf
```

```
Of 7 files within 1 directories
```

```
0 are compressed and 7 are not compressed.
```

```
371,949 total bytes of data are stored in 371,949 bytes.
```

```
The compression ratio is 1.0 to 1.
```

```
D:\temp>COMPACT /C
```

```
Setting the directory D:\temp\ to compress new files [OK]
```

```
Compressing files in D:\temp\
```

```
.txt          0 :          0 = 1.0 to 1 [OK]
harsh.chor    23 :          23 = 1.0 to 1 [OK]
harsh.txt     29 :          29 = 1.0 to 1 [OK]
s             0 :          0 = 1.0 to 1 [OK]
smit.txt      28 :          28 = 1.0 to 1 [OK]
SS_BE3_OS_PracAssignment.pdf 360498 :    360448 = 1.0 to 1 [OK]
```

```
8 files within 2 directories were compressed.
```

```
371,949 total bytes of data are stored in 368,720 bytes.
```

```
The compression ratio is 1.0 to 1.
```

```
D:\temp>COMPACT /C /S
```

```
Setting the directory D:\temp\ to compress new files [OK]
```

```
Compressing files in D:\temp\
```

```
1 files within 2 directories were compressed.
```

```
0 total bytes of data are stored in 0 bytes.
```

```
The compression ratio is 1.0 to 1.
```

```
D:\temp>_
```


17) CONVERT

Description :-

- Converts FAT volumes to NTFS

Syntax: -

volume	Specifies the drive letter (followed by a colon), mount point, or volume name.
/FS:NTFS	Specifies that the volume will be converted to NTFS.
/V	Specifies that Convert will be run in verbose mode.
/CvtArea:filename	Specifies a contiguous file in the root directory that will be the place holder for NTFS system files

18) COPY

Description :-

- Copies one or more files to another location .

Syntax:

- `COPY [/D] [/V] [/A | /B] source [/A | /B] [+ source [/A | /B] [+ ...]] [destination [/A | /B]]`
- `source` - Specifies the file or files to be copied.

/A	Indicates an ASCII text file.
/B	Indicates a binary file.
/D	Allow the destination file to be created decrypted
destination	Specifies the directory and/or filename for the new file(s).
/V	Verifies that new files are written correctly.

Usage :-

```
D:\temp>copy harsh.txt+smit.txt combinedAll.txt
harsh.txt
smit.txt
        1 file(s) copied.

D:\temp>dir
Volume in drive D is User
Volume Serial Number is 36B2-C823

Directory of D:\temp

11-02-2022  01:23    <DIR>          .
10-02-2022  19:13                0 .txt
11-02-2022  01:15             58 allCombined.doc
11-02-2022  01:18             58 allCombined.ppt
11-02-2022  01:22             91 combined.js
11-02-2022  01:14             58 combined.txt
11-02-2022  01:23             90 combinedAll.txt
10-02-2022  19:19             23 harsh.chor
11-02-2022  01:19             45 harsh.txt
10-02-2022  20:02              0 s
11-02-2022  01:19             44 smit.txt
10-02-2022  11:32        360,498 SS_BE3_OS_PracAssignment.pdf
                11 File(s)          360,965 bytes
                1 Dir(s)  34,102,169,600 bytes free
```

19) DATE

Description :-

- Displays or sets the date

Syntax:-

- DATE [/T | date]
- If Command Extensions are enabled the DATE command supports the /T switch which tells the command to just output the current date, without prompting for a new date.

Usage :

```
D:\temp>DATE
The current date is: 11-02-2022
Enter the new date: (dd-mm-yy)

D:\temp>DATE /T
11-02-2022

D:\temp>_
```

20) DEL

Description :-

- Delete one or more files.

Syntax:-

- DEL [/P] [/F] [/S] [/Q] [/A[[:]attributes]] names

/P	Prompts for confirmation before deleting each file.
/F	Force deleting of read-only files.
/S	Delete specified files from all subdirectories.
/A	Selects files to delete based on attributes
attributes	R Read-only files S System files H Hidden files A Files ready for archiving I Not content indexed Files L Reparse Points O Offline files

Usage :-

```
D:\temp>del /p harsh.chor
D:\temp\harsh.chor, Delete (Y/N)? y

D:\temp>dir
Volume in drive D is User
Volume Serial Number is 36B2-C823

Directory of D:\temp

11-02-2022  01:37    <DIR>          .
10-02-2022  19:13                0  .txt
11-02-2022  01:15                58 allCombined.doc
11-02-2022  01:18                58 allCombined.ppt
11-02-2022  01:22                91 combined.js
11-02-2022  01:14                58 combined.txt
11-02-2022  01:23                90 combinedAll.txt
11-02-2022  01:19                45 harsh.txt
10-02-2022  20:02                 0  s
11-02-2022  01:19                44 smit.txt
10-02-2022  11:32           360,498 SS_BE3_OS_PracAssignment.pdf
                10 File(s)          360,942 bytes
                1 Dir(s)  34,102,169,600 bytes free
```

21) DIR

Description :-

- Displays the list of files and sub-directories in folder.

Syntax:-

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

```
/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
```

Usage :

```
D:\Professional>dir
Volume in drive D is User
Volume Serial Number is 36B2-C823

Directory of D:\Professional

09-02-2022  11:27    <DIR>          .
18-12-2021  19:04                161,254  90241417235ef9947b4e6ddf9ac08fd5.pdf
10-10-2021  12:24    <DIR>          Android
10-10-2021  12:24    <DIR>          Android Projects
09-02-2022  22:47    <DIR>          cp&dsa
09-02-2022  11:29                157,934  download.pdf
19-10-2021  12:59    <DIR>          DSA-SELF_PACED
08-02-2022  19:17    <DIR>          GATE
26-11-2021  18:09    <DIR>          Infiquity
20-09-2021  10:25    <DIR>          Projects
09-11-2021  10:43    <DIR>          Resume
10-10-2021  12:43    <DIR>          SBM
09-02-2022  11:26                51,964  sem 6 fee payment.pdf
09-02-2022  11:27                105,939  sem6 admission .pdf
09-02-2022  11:27                94,439  sem6 admission reciept.pdf
17-10-2021  14:28    <DIR>          Software
16-01-2022  23:11                184,937  StudentIcard.pdf
19-01-2022  11:29    <DIR>          Study Materials
22-10-2021  11:25    <DIR>          Video-Cafe-main
18-11-2021  11:09    <DIR>          WEB-DEVELOPMENT
               6 File(s)                756,467 bytes
               14 Dir(s)  34,102,169,600 bytes free
```

```
D:\Professional>dir /a:A
Volume in drive D is User
Volume Serial Number is 36B2-C823

Directory of D:\Professional

18-12-2021  19:04                161,254  90241417235ef9947b4e6ddf9ac08fd5.pdf
09-02-2022  22:47    <DIR>          cp&dsa
09-02-2022  11:29                157,934  download.pdf
09-02-2022  11:26                51,964  sem 6 fee payment.pdf
09-02-2022  11:27                105,939  sem6 admission .pdf
09-02-2022  11:27                94,439  sem6 admission reciept.pdf
16-01-2022  23:11                184,937  StudentIcard.pdf
               6 File(s)                756,467 bytes
               1 Dir(s)  34,102,169,600 bytes free
```

```

D:\Professional>dir /o:n
Volume in drive D is User
Volume Serial Number is 36B2-C823

Directory of D:\Professional

09-02-2022  11:27    <DIR>          .
18-12-2021  19:04             161,254  90241417235ef9947b4e6ddf9ac08fd5.pdf
10-10-2021  12:24    <DIR>          Android
10-10-2021  12:24    <DIR>          Android Projects
09-02-2022  22:47    <DIR>          cp&dsa
09-02-2022  11:29             157,934  download.pdf
19-10-2021  12:59    <DIR>          DSA-SELF_PACED
08-02-2022  19:17    <DIR>          GATE
26-11-2021  18:09    <DIR>          Infiquity
20-09-2021  10:25    <DIR>          Projects
09-11-2021  10:43    <DIR>          Resume
10-10-2021  12:43    <DIR>          SBM
09-02-2022  11:26             51,964  sem 6 fee payment.pdf
09-02-2022  11:27             105,939  sem6 admission .pdf
09-02-2022  11:27             94,439  sem6 admission reciept.pdf
17-10-2021  14:28    <DIR>          Software
16-01-2022  23:11             184,937  StudentIcard.pdf
19-01-2022  11:29    <DIR>          Study Materials
22-10-2021  11:25    <DIR>          Video-Cafe-main
18-11-2021  11:09    <DIR>          WEB-DEVELOPMENT
               6 File(s)              756,467 bytes
              14 Dir(s)  34,102,169,600 bytes free

```

22) DISKPART

Description :-

- It is a command-line disk partition utility tool.

Syntax:-

- **diskpart [/s]**
- **/s** :shows diskpart script

Options :-

list disk	Displays all the disks on the computer.
list volume	Displays all the volumes on the computer.
list partition	Displays the partitions on the disk that has focus on the computer.
list vdisk	Displays all the virtual disks on the computer.

Usage :

```
C:\WINDOWS\system32>diskpart

Microsoft DiskPart version 10.0.22000.1

Copyright (C) Microsoft Corporation.
On computer: SMIT-LAPTOP

DISKPART> list disk

   Disk ###  Status              Size       Free      Dyn  Gpt
   -----  -
   Disk 0    Online                476 GB         0 B           *

DISKPART> list volume

   Volume ###  Ltr  Label        Fs      Type          Size      Status
   -----  -
   Volume 0    C:  OS           NTFS     Partition     268 GB    Healthy
   Volume 1    D:  User         NTFS     Partition     127 GB    Healthy
   Volume 2                SYSTEM      FAT32     Partition     260 MB    Healthy
   Volume 3                RECOVERY   NTFS     Partition     1100 MB    Healthy

DISKPART> list vdisk

There are no virtual disks to show.
```

23) DOSKEY

Description :-

- Edits command lines, recalls Windows commands, and creates macros.

Syntax :-

- DOSKEY [/REINSTALL] [/LISTSIZE=size] [/MACROS[:ALL | :exename]] [/HISTORY] [/INSERT | /OVERSTRIKE] [/EXENAME=exename] [/MACROFILE=filename] [macroname=[text]]

24) DRIVERQUERY

Description :-

- Enables an administrator to display a list of installed device drivers.

Syntax :-

- DRIVERQUERY [/S system [/U username [/P [password]]] [/FO format] [/NH] [/SI] [/V]

/S	system	Specifies the remote system to connect to.
/U	[domain\]user	Specifies the user context under which the command should execute.
/P	[password]	Specify the password for the given user context.
/FO	format	Specifies the type of output to display. Valid values to be passed with the switch are "TABLE", "LIST", "CSV".
/NH		Specifies that the "Column Header" should not be displayed. Valid for "TABLE" and "CSV" format only.
/SI		Provides information about signed drivers.
/V		Displays verbose output. Not valid

Usage :**Examples:**

```
DRIVERQUERY
DRIVERQUERY /FO CSV /SI
DRIVERQUERY /NH
DRIVERQUERY /S ipaddress /U user /V
DRIVERQUERY /S system /U domain\user /P password /FO LIST
```

25) ECHO

Description :-

- Displays messages, or turns command-echoing on or off.

Syntax :-

- ECHO [ON | OFF]
- ECHO [message]

Usage :

```
C:\WINDOWS\system32>echo off
echo
ECHO is off.
echo welcome to msu...
welcome to msu...
```

26) ENDLOCAL**Description :-**

- Ends localization of environment changes in a batch file, and restores environment variables to their values before the corresponding setlocal command was run.

Syntax :-

- **endlocal**

Usage :-

- It is used in batch program with setlocal command to end localization of used environment variable .

```
@echo off
setlocal
path=g:\programs\superapp;%path%
call superapp>c:\superapp.out
endlocal
start notepad c:\superapp.out
```

27) ERASE

- Same as **delete**
-

28) EXIT**Description :-**

- Closes cmd.exe program.

Syntax :-

- exit

29) FC

Description :-

- Compares two files or sets of files and displays the differences between them

Syntax :-

- FC file1 file2

Usage :

```
D:\temp>fc fte.txt msu.txt
Comparing files fte.txt and MSU.TXT
***** fte.txt
piyush bansal :welcome to lenskart ... I am here to raise 1 cr for 1% equity
in my company who are interested in to invest in m
y offer ...
***** MSU.TXT
Hello Welcome To Shark Tank. Surprise...
*****
```

30) FIND

Description :-

- Searches for a text string in a file or files.

Syntax :-

- FIND [/V] [/C] [/N] [/I] "string" [[drive:][path]filename[...]]

/V	Displays all lines NOT containing the specified string.
/C	Displays only the count of lines containing the string.
/N	Displays line numbers with the displayed lines.
/I	Ignores the case of characters when searching for the string.

Usage :

```
D:\temp>find /i "piyush bansal" fte.txt

----- FTE.TXT
piyush bansal :welcome to lenskart ... I am here to raise 1 cr for 1%
equity in my company who are interested in to invest in my offer ...

D:\temp>find /i /c "piyush bansal" fte.txt

----- FTE.TXT: 1

D:\temp>_
```

31) FINDSTR**Description :-**

- Find the string from given filename

Syntax :

- FINDSTR [/B] [/E] [/L] [/R] [/S] [/I] [/X] [/V] [/N] [/M] strings [drive:] [path]filename[...]

/B	Matches pattern if at the beginning of a line.
/E	Matches pattern if at the end of a line.
/L	Uses search strings literally.
/R	Uses search strings as regular expressions.
/S	Searches for matching files in the current directory and all subdirectories.
/I	Specifies that the search is not to be case sensitive.
/X	Prints lines that match exactly.
/V	Prints only lines that do not contain a match.
/N	Prints the line number before each line that matches.
/M	Prints only the filename if a file contains a match.

Usage :

```
D:\temp>findstr /i "peyu" fte.txt
peyush bansal :welcome to lenskart ... I am here to raise 1 cr for 1% equity in
my company who are interested in to invest in my offer ...

D:\temp>findstr /i /v "peyu" fte.txt
aman gupta : oh bhai hum bhi bana lege usme kya hai...
ashneer grover : yeh sab doglapan hai
apuman mittal : arre bolne toh do yaar mein offer de raha hu
namita thapar : mein aap se connect nai kar pa rahi hu that's why i am out..
vineeta singh : aap gujarat se ho mein bhi gujarat se hu isliye mein aap ko off
er dena chahti hu... aur woh bhi transfer proof wala...
zavvyco@gmail.com
D:\temp>
```

32) FOR

Description : -

- Runs a specified command for each file in a set of files.

Syntax :-

- FOR %variable IN (set) DO command [command-parameters]

%variable	Specifies a single letter replaceable parameter.
(set)	Specifies a set of one or more files. Wildcards may be used.
command	Specifies the command to carry out for each file.
Command-parameters	Specifies parameters or switches for the specified command.

- To use the FOR command in a batch program, specify %%variable instead of %variable. Variable names are case sensitive, so %i is different from %I.

33) FORMAT

Description : -

- Format a disk for use in windows

Syntax :

- **FORMAT** volume [/FS:file-system] [/V:label] [/Q] [/L[:state]] [/A:size] [/C] [/I:state] [/X] [/P:passes] [/S:state]

volume	Specifies the drive letter (followed by a colon), mount point, or volume name.
/FS:filesystem	Specifies the type of the file system (FAT, FAT32, exFAT, NTFS, UDF, ReFS).
/V:label	Specifies the volume label.
/Q	Performs a quick format. Note that this switch overrides /P.
/C	NTFS only: Files created on the new volume will be compressed by default.
/X	Forces the volume to dismount first if necessary. All opened

34) FSUTIL

Description :-

- Performs tasks that are related to file allocation table (FAT) and NTFS file systems, such as managing reparse points, managing sparse files, or dismounting a volume.

Syntax :-

- **FSUTIL** <COMMAND>

```
D:\temp>fsutil
---- Commands Supported ----

8dot3name      8dot3name management
behavior        Control file system behavior
bypassIo        BypassIo management
dax             Dax volume management
dirty          Manage volume dirty bit
file           File specific commands
fsInfo         File system information
hardlink        Hardlink management
objectID        Object ID management
quota          Quota management
repair          Self healing management
reparsePoint    Reparse point management
storageReserve  Storage Reserve management
resource        Transactional Resource Manager management
sparse          Sparse file control
tiering         Storage tiering property management
trace          File system trace management
transaction     Transaction management
usn            USN management
volume          Volume management
wim            Transparent wim hosting management
```

Usage :

```
D:\temp>fsutil volume fileLayout
Usage: fsutil volume fileLayout [options] <volume pathname> *
       fsutil volume fileLayout [options] <volume pathname> <file id>
       fsutil volume fileLayout [options] <full file path>

Options:
    /v    Verbose mode - displays attribute buffer hex dump for $EA and $REPARSE_
POINT.

Eg: fsutil volume fileLayout C: *
     fsutil volume fileLayout C: 5
     fsutil volume fileLayout C: 0x000400000000001bf
     fsutil volume fileLayout C:\$MFT
     fsutil volume fileLayout C:\Windows
     fsutil volume fileLayout /v C:\windows
```

```
D:\temp>fsutil fsinfo
---- FSINFO Commands Supported ----

drives          List all drives
driveType       Query drive type for a drive
ntfsInfo        Query NTFS specific volume information
refsInfo        Query REFS specific volume information
sectorInfo      Query sector information
statistics      Query file system statistics
volumeInfo      Query volume information

D:\temp>fsutil fsinfo volumeInfo
Usage: fsutil fsInfo volumeInfo <volume pathname>
Eg: fsutil fsInfo volumeInfo C:
```

```
D:\temp>fsutil fsinfo
---- FSINFO Commands Supported ----

drives          List all drives
driveType       Query drive type for a drive
ntfsInfo        Query NTFS specific volume information
refsInfo        Query REFS specific volume information
sectorInfo      Query sector information
statistics      Query file system statistics
volumeInfo      Query volume information

D:\temp>fsutil fsinfo drives

Drives: C:\ D:\
```

35) FTYPE

Description :-

- Displays or modifies file-types used in file extension association.

Syntax :-

- FTYPE [fileType[=[openCommandString]]]

fileType	Specifies the file type to examine or change
openCommandString	Specifies the open command to use when launching files of this type.

Usage :

```
D:\temp>assoc .chor
.chor=Word.Document.12

D:\temp>ftype Word.Document.12="%SystemRoot%\system32\notepad.exe %1"
Word.Document.12="C:\Windows\system32\notepad.exe %1"
```

36) GOTO

Description :-

- Directs cmd.exe to a labeled line in a batch program.
- Within a batch program, this command directs command processing to a line that is identified by a label.
- When the label is found, processing continues starting with the commands that begin on the next line.

Syntax :-

- `goto<label>`
- label has to be defined for goto command to know where to go.

Usage :

```
echo off
format a: /s
if not errorlevel 1 goto end
echo An error occurred during formatting.
:end
echo End of batch program.
```

37) GPRESULT – GROUP POLICY INFORMATION

Description :-

- Displays the Resultant Set of Policy (RSOP) information for a remote user and computer. To use RSOP reporting for remotely targeted computers through the firewall, you must have firewall rules that enable inbound network traffic on the ports.

Syntax :-

- `gpresult [/s <system> [/u <username> [/p [<password>]]] [/user [<targetdomain>\<targetuser>] [/scope {user | computer}] [/r | /v | /z | [/x | /h] <filename> [/f] | /?]`

38) GRAFTABL

Description :-

- Enables Windows operating systems to display an extended character set in graphics mode.
- If used without parameters, graftabl displays the previous and the current code page.

Syntax :-

- graftabl <codepage>
- graftabl /status

Usage :-

- **outdated**
-

39) HELP

Description :-

- shows the usage of command enter after it if used without any parameter shows name and description of all commands

Syntax :

- help <command>

Usage :-

```
D:\temp>help assoc
Displays or modifies file extension associations

ASSOC [.ext[=[fileType]]]

    .ext      Specifies the file extension to associate the file type with
    fileType  Specifies the file type to associate with the file extension

Type ASSOC without parameters to display the current file associations.
If ASSOC is invoked with just a file extension, it displays the current
file association for that file extension. Specify nothing for the file
type and the command will delete the association for the file extension.

D:\temp>_
```

40) ICACLS

- Replaces CACL as it is **deprecated**.
-

41) IF

Description :-

- Performs conditional processing in batch programs.

Syntax :

- `if [not] ERRORLEVEL <number> <command> [else <expression>]`
- `if [not] <string1>==<string2> <command> [else <expression>]`
- `if [not] exist <filename> <command> [else <expression>]`

Usage :

```
if not exist product.dat echo Cannot find data file
```

42) LABEL

Description :-

- Creates, changes, or deletes the volume label (that is, the name) of a disk. If used without parameters, the label command changes the current volume label or deletes the existing label.

Syntax :-

- `label [/mp] [<volume>] [<label>]`

/mp	Specifies that the volume should be treated as a mount point or volume name.
<volume>	Specifies a drive letter (followed by a colon), mount point, or volume name. If a volume name is specified, the /mp parameter is unnecessary.
<label>	Specifies the label for the volume.

Usage :

```
D:\temp>label d:non-os drive

D:\temp>label
Volume in drive D: is non-os drive
Volume Serial Number is 36B2-C823
Volume label (32 characters, ENTER for none)?

Delete current volume label (Y/N)? n
```

43) MD

Description :-

- Creates directory or sub-directory file system.

Syntax :-

- md [:drive]<path>

Usage :

```
D:\temp>md os

D:\temp>md os\assignments
```

```
D:\temp>dir /ad
Volume in drive D is non-os drive
Volume Serial Number is 36B2-C823

Directory of D:\temp

11-02-2022  16:20    <DIR>          .
10-02-2022  20:10    <DIR>          ..
11-02-2022  16:20    <DIR>          os
               0 File(s)                0 bytes
               3 Dir(s)  34,102,169,600 bytes free

D:\temp>cd os

D:\temp\os>dir /ad
Volume in drive D is non-os drive
Volume Serial Number is 36B2-C823

Directory of D:\temp\os

11-02-2022  16:21    <DIR>          .
11-02-2022  16:20    <DIR>          ..
11-02-2022  16:21    <DIR>          assignments
               0 File(s)                0 bytes
               3 Dir(s)  34,102,169,600 bytes free
```

44) MKDIR

- Same as MD
-

45) MKLINK

Description :-

- Creates a directory or file symbolic or hard link.

Syntax :-

- `mklink [[/d] | [/h] | [/j]] <link> <target>`
- `/s` – for symbolic link
- `/h` – for hard link

Usage :

```
D:\temp>mklink /d \Mywallpaper D:\Wallpaper
symbolic link created for \Mywallpaper <==> D:\Wallpaper

D:\temp>mklink /h \Mywallpape.jpg D:\Wallpaper\pexels-pixabay-414144.jpg
Hardlink created for \Mywallpape.jpg <==> D:\Wallpaper\pexels-pixabay-414144.jpg
```

46) MODE

Description :-

- Configures a serial communications port and sets the output handshake.
-

47) MORE

Description :

- Displays one screen of output at a time.

Syntax :-

- `more <filename>`

Usage :

```
D:\temp>more fte.txt
peyush bansal :welcome to lenskart ... I am here to raise 1 cr for 1% equity in
my company who are interested in to invest in my offer ...
aman gupta : oh bhai hum bhi bana lege usme kya hai...
ashneer grover : yeh sab doglapan hai
apuman mittal : arre bolne toh do yaar mein offer de raha hu
namita thapar : mein aap se connect nai kar pa rahi hu that's why i am out..
vineeta singh : aap gujarat se ho mein bhi gujarat se hu isliye mein aap ko off
er dena chahti hu... aur woh bhi transfer proof wala...
zavvyco@gmail.com
```

48) MOVE

Description :

- Moves files and renames files and directories.

Syntax :-

For moving : `MOVE [/Y | /-Y] [drive:][path]filename1[,...] destination`

For renaming : `MOVE [/Y | /-Y] [drive:][path]dirname1 dirname2`

- /Y : Suppresses prompting to confirm you want to overwrite an existing destination file
- /-Y: Causes prompting to confirm you want to overwrite an existing destination file.

Usage :

```
D:\temp>move .\allCombined.doc .\os
1 file(s) moved.

D:\temp>cd os

D:\temp\os>dir
Volume in drive D is non-os drive
Volume Serial Number is 36B2-C823

Directory of D:\temp\os

11-02-2022  17:02    <DIR>          .
11-02-2022  17:02    <DIR>          ..
11-02-2022  01:15                58 allCombined.doc
11-02-2022  16:21    <DIR>          assignments
                        1 File(s)              58 bytes
                        3 Dir(s)  34,102,030,336 bytes free

D:\temp\os>
```

49) OPENFILES

Description :-

- Enables an administrator to query, display, or disconnect files and directories that have been opened on a system.
- This command also enables or disables the system Maintain Objects List global flag

Usage :

- Not for local machine.
-

50) PATH**Description : -**

- Sets the command path in the PATH environment variable, specifying the set of directories used to search for executable (.exe) files.
- If used without parameters, this command displays the current command path.

Syntax :-

- path [[<drive>:]<path>[;...][;%PATH%]]

Usage :-

```
D:\temp\os>PATH
PATH=C:\Program Files\Eclipse Adoptium\jdk-17.0.1.12-hotspot\bin;C:\Program Files\Common Files\Oracle\Java\javapath;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\Wbem;C:\WINDOWS\System32\WindowsPowerShell\v1.0\;C:\WINDOWS\System32\OpenSSH\;C:\Program Files\Git\cmd;C:\Program Files\dotnet\;C:\Program Files\Microsoft SQL Server\130\Tools\Binn\;C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\170\Tools\Binn\;C:\ProgramData\chocolatey\bin;C:\Program Files\OpenJDK\openjdk-8u302-b08\bin;C:\Program Files\nodejs\;C:\Program Files (x86)\dotnet\;C:\Users\ASUS\AppData\Local\Microsoft\WindowsApps;C:\Users\ASUS\AppData\Local\Programs\Microsoft VS Code\bin;C:\Users\ASUS\AppData\Local\Programs\Hyper\resources\bin;C:\Users\ASUS\AppData\Local\GitHubDesktop\bin;C:\Users\ASUS\.dotnet\tools;C:\Program Files (x86)\GitHub CLI\;C:\PATH_PROGRAMS;C:\Users\ASUS\AppData\Local\Android\Sdk\platform-tools;C:\Program Files\JetBrains\WebStorm 2021.2.3\bin;C:\Users\ASUS\AppData\Roaming\npm;C:\Users\ASUS\AppData\Local\atom\bin;C:\Users\ASUS\.dotnet\tools
```

51) PAUSE

Description :-

- Suspends the processing of a batch program, displaying the prompt, Press any key to continue . . .

Syntax :-

- pause
-

52) POPD**Description :-**

- The popd command changes the current directory to the directory that was most recently stored by the pushd command.

Syntax :

- popd
-

53) PRINT**Description :-**

- prints a txt file from a printer

Syntax :-

- print [printer name] [drive:][path][filename]

Usage :-

```
print [/d:<prntername>] [<drive>:][<path><filename>[ ...]
```

54) PROMPT**Description :-**

- Changes the Cmd.exe command prompt, including displaying any text you want, such as the name of the current directory, the time and date, or the Microsoft Windows version number.
- If used without parameters, this command resets the command prompt to the default setting, which is the current drive letter and directory followed by the greater than symbol (>).

Syntax :-

- prompt <text>

Usage :-

```
D:\temp>prompt
D:\temp>prompt $t
17:33:03.25 prompt $d$s$s$t$_$g
11-02-2022 17:33:24.94
>prompt --$g
-->prompt $p$g
D:\temp> prompt $d$s$s$t$_$g
11-02-2022 17:34:01.89
>color 2
11-02-2022 17:34:14.32
>echo color changed
color changed
11-02-2022 17:34:25.49
>
```

55) PUSHD

Description :-

- Stores the current directory for use by the popd command, and then changes to the specified directory.
- Every time you use the pushd command, a single directory is stored for your use. However, you can store multiple directories by using the pushd command multiple times.

Syntax :-

- pushd [<path>]

56) RD

Description :-

- Removes a directory

Syntax :-

- rm [drive:]<path><dirname>

Usage :-


```
D:\temp>md sem6

D:\temp>dir /ad
Volume in drive D is non-os drive
Volume Serial Number is 36B2-C823

Directory of D:\temp

11-02-2022  17:49    <DIR>          .
11-02-2022  16:57    <DIR>          ..
11-02-2022  17:02    <DIR>          os
11-02-2022  17:49    <DIR>          sem6
               0 File(s)                0 bytes
               4 Dir(s)  34,102,030,336 bytes free

D:\temp>rd sem6

D:\temp>dir /ad
Volume in drive D is non-os drive
Volume Serial Number is 36B2-C823

Directory of D:\temp

11-02-2022  17:50    <DIR>          .
11-02-2022  16:57    <DIR>          ..
11-02-2022  17:02    <DIR>          os
               0 File(s)                0 bytes
               3 Dir(s)  34,102,030,336 bytes free
```

57) RECOVER

Description :-

- Recovers readable information from a bad or defective disk.

Syntax :-

- RECOVER [drive:][path]filename

58) REM

Description :-

- Records comments (remarks) in batch files or CONFIG.SYS.

Syntax :-

- REM [comment]

Usage :-

```
D:\temp>rem hello  
  
D:\temp>
```

59) REN

Description :-

- Rename a file or files.

Syntax :-

- ren [drive:]<path> filename1 filename2(new name)

Usage :-

```
D:\temp>ren .txt renamed.txt  
  
D:\temp>dir  
Volume in drive D is non-os drive  
Volume Serial Number is 36B2-C823  
  
Directory of D:\temp  
  
11-02-2022  18:38    <DIR>          .  
11-02-2022  01:18             58 allCombined.ppt  
11-02-2022  01:22             91 combined.js  
11-02-2022  01:14             58 combined.txt  
11-02-2022  15:00           532 fte.txt  
11-02-2022  01:19             45 harsh.txt  
11-02-2022  16:47       35,265 InfosysCertificationExaminationGuidelines.d  
ocx  
11-02-2022  13:04             40 msu.txt  
11-02-2022  17:02    <DIR>          os  
11-02-2022  15:40             38 police.chor  
10-02-2022  19:13              0 renamed.txt  
10-02-2022  20:02              0 s  
11-02-2022  01:19             44 smit.txt  
10-02-2022  11:32       360,498 SS_BE3_OS_PracAssignment.pdf  
          12 File(s)          396,669 bytes  
          2 Dir(s) 34,102,030,336 bytes free
```

60) RENAME

- same as REN
-

61) REPLACE

Description :-

- Replace existing files in a directory. If used with the /a option, this command adds new files to a directory instead of replacing existing files.

Syntax :-

- `replace [<drive1>:][<path1>]<filename>
[<drive2>:][<path2>] [/p] [/r] [/s] [/w] [/u]`

/a	Adds new files to the destination directory instead of replacing existing files. You can't use this command-line option with the /s or /u command-line option.
/p	Prompts you for confirmation before replacing a destination file or adding a source file.
/r	Replaces Read-only and unprotected files. If you attempt to replace a Read-only file, but you don't specify /r, an error results and stops the replacement operation.
/w	Waits for you to insert a disk before the search for source files begins. If you don't specify /w, this command begins replacing or adding files immediately after you press ENTER.
/s	Searches all subdirectories in the destination directory and replaces matching files. You can't use /s with the /a command-line option. The command doesn't search subdirectories that are specified in <i>Path1</i> .
/u	Replaces only those files on the destination directory that are older than those in the source directory. You can't use /u with the /a command-line option.

Usage :

```
D:\temp>replace .\combined.txt .\os /s
Replacing D:\temp\os\combined.txt

D:\temp>cd os
```

62) RMDIR

- Same as RD
-

63) ROBOCOPY

Description :-

- Copies file /s from one destination to another.

Syntax :-

- ROBOCOPY source destination [file [file]...] [options]

Options :

/S	copy Subdirectories, but not empty ones.
/E	copy subdirectories, including Empty ones.
/LEV :n	only copy the top n Levels of the source directory tree.

Usage :-

```
D:\temp>ROBOCOPY .\ .\os fte.txt /mt /z

-----
ROBOCOPY      ::      Robust File Copy for Windows
-----

Started : 11 February 2022 23:42:24
Source  : D:\temp\
Dest    : D:\temp\os\

Files : fte.txt

Options : /DCOPY:DA /COPY:DAT /Z /MT:8 /R:1000000 /W:30

-----
100%          New File                532          D:\temp\fte.txt
-----

Total      Copied    Skipped  Mismatch    FAILED    Extras
 Dirs  :         1         1         1         0         0         0
Files  :         1         1         0         0         0         0
Bytes  :        532        532         0         0         0         0
Times  :   0:00:00   0:00:00             0:00:00   0:00:00
Ended  : 11 February 2022 23:42:24
```

64) SET

Description :-

- Displays, sets, or removes cmd.exe environment variables.

Syntax :-

- **SET [variable=[string]]**
- **variable** Specifies the environment-variable name.
- **string** Specifies a series of characters to assign to the variable.

Usage :

```
D:\temp>set path
Path=C:\Program Files\Eclipse Adoptium\jdk-17.0.1.12-hotspot\bin;C:\Program Files\Common Files\Oracle\Java\javapath;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\Wbem;C:\WINDOWS\System32\WindowsPowerShell\v1.0\;C:\WINDOWS\System32\OpenSSH\;C:\Program Files\Git\cmd;C:\Program Files\dotnet\;C:\Program Files\Microsoft SQL Server\130\Tools\Binn\;C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\170\Tools\Binn\;C:\ProgramData\chocolatey\bin;C:\Program Files\OpenJDK\openjdk-8u302-b08\bin;C:\Program Files\nodejs\;C:\Program Files (x86)\dotnet\;C:\Users\ASUS\AppData\Local\Microsoft\WindowsApps;C:\Users\ASUS\AppData\Local\Programs\Microsoft VS Code\bin;C:\Users\ASUS\AppData\Local\Programs\Hyper\resources\bin;C:\Users\ASUS\AppData\Local\GitHubDesktop\bin;C:\Users\ASUS\.dotnet\tools;C:\Program Files (x86)\GitHub CLI\;C:\PATH_PROGRAMS;C:\Users\ASUS\AppData\Local\Android\Sdk\platform-tools;C:\Program Files\JetBrains\WebStorm 2021.2.3\bin;C:\Users\ASUS\AppData\Roaming\npm;C:\Users\ASUS\AppData\Local\atom\bin;C:\Users\ASUS\.dotnet\tools
PATHEXT=.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC

D:\temp>set path="c:/program Files"

D:\temp>set path="d:\temp"

D:\temp>set path
Path="d:\temp"
PATHEXT=.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
```

65) SETLOCAL

Description :-

- Begins localization of environment changes in a batch file.
- **ENDLOCAL** must be issued to restore the previous settings.

Syntax :-

- **setlocal**

Usage :-

- In batch programs for localization of environment variables in code and "endlocal" command is used to restore the previous settings.

66) SC

Description :-

- Displays or configures services (background processes).

Syntax :-

- **sc [options]**

Usage :

```
D:\temp>sc query eventlog

SERVICE_NAME: eventlog
        TYPE               : 30    WIN32
        STATE                : 4     RUNNING
                                (STOPPABLE, NOT_PAUSABLE, ACCEPTS_SHUTDOWN)
        WIN32_EXIT_CODE       : 0     (0x0)
        SERVICE_EXIT_CODE   : 0     (0x0)
        CHECKPOINT           : 0x0
        WAIT_HINT            : 0x0

D:\temp>_
```

67) SCHEDTASKS

Description :-

- Enables an administrator to create, delete, query, change, run and end scheduled tasks on a local or remote system.

Syntax :-

- SCHEDTASKS /parameter [arguments]

/Create	Creates a new scheduled task.
/Delete	Deletes the scheduled task(s).
/Query	Displays all scheduled tasks.
/Change	Changes the properties of scheduled task.
/Run	Runs the scheduled task on demand.
/End	Stops the currently running scheduled task.
/ShowSid	Shows the security identifier corresponding to a scheduled task name.

68) SHIFTS

Description :-

- Changes the position of replaceable parameters in a batch file.

Syntax :-

- SHIFT [/n]

Usage :-

- The shift command changes the values of the batch parameters %0 through %9 by copying each parameter into the previous one—the value of %1 is copied to %0, the value of %2 is copied to %1, and so on.
- This is useful for writing a batch file that performs the same operation on any number of parameters.

```
@echo off
rem MYCOPY.BAT copies any number of files
rem to a directory.
rem The command uses the following syntax:
rem mycopy dir file1 file2 ...
set todir=%1
:getfile
shift
if "%1"=="" goto end
copy %1 %todir%
goto getfile
:end
set todir=
echo All done
```

69) SHUTDOWN**Description :-**

- Allow proper remote and local shutdown of machine.

Syntax :

- shutdown [/i | /l | /s | /sg | /r | /g | /a | /p | /h | /e | /o] [/hybrid] [/soft] [/fw] [/f] [/m \\computer][/t xxx] [/d [p|u:]xx:yy [/c "comment"]]

i	Display the graphical user interface (GUI). This must be the first option.
/l	Log off. This cannot be used with /m or /d options.
/s	Shutdown the computer.
/sg	Shutdown the computer. On the next boot, if Automatic Restart Sign On is enabled, automatically sign in and lock last interactive user. After sign in, restart any registered applications.
/r	Full shutdown and restart the computer.

/g	Full shutdown and restart the computer. After the system is rebooted, if Automatic Restart Sign On is enabled, automatically sign in and lock last interactive user. After sign in, restart any registered applications.
/a	Abort a system shutdown. This can only be used during the time out period. Combine with /fw to clear any pending boots to firmware.
/p	Turn off the local computer with no time out or warning. Can be used with /d and /f options.
/h	Hibernate the local computer. Can be used with the /f option.
/hybrid	Performs a shutdown of the computer and prepares it for fast startup. Must be used with /s option.
/fw	Combine with a shutdown option to cause the next boot to go to the firmware user interface.
/e	Document the reason for an unexpected shutdown of a computer.
/o	Go to the advanced boot options menu and restart the computer. Must be used with /r option.
/m \\computer	Specify the target computer.
/t xxx	Set the time out period before shutdown to xxx seconds. The valid range is 0 315360000 (10 years), with a default of 30. If the timeout period is greater than 0, the /f parameter is implied.
/c	"comment" Comment on the reason for the restart or shutdown. Maximum of 512 characters allowed.
/f	Force running applications to close without forewarning users. The /f parameter is implied when a value greater than 0 is specified for the /t parameter.

Usage :

```
D:\temp>shutdown /s /t 100
D:\temp>shutdown /a
D:\temp>
```


70) SORT

Description :-

- Used to display output in sorted order.

Syntax :-

- `sort [/r] filename`
- `/r` – for reverse order .

Usage :

```
D:\temp>sort msu.txt
hello
hello my name is harsh.
hello my name is kush.
hello my name is nisarg.
hello my name is satvan.
hello my name is smit.
Hello Welcome To Shark Tank. Surprise...
hi
```

```
D:\temp>find "hello" msu.txt | sort
----- MSU.TXT
hello
hello my name is harsh.
hello my name is kush.
hello my name is nisarg.
hello my name is satvan.
hello my name is smit.

D:\temp>find "hello" msu.txt | sort /r
hello my name is smit.
hello my name is satvan.
hello my name is nisarg.
hello my name is kush.
hello my name is harsh.
hello
----- MSU.TXT
```

71) START

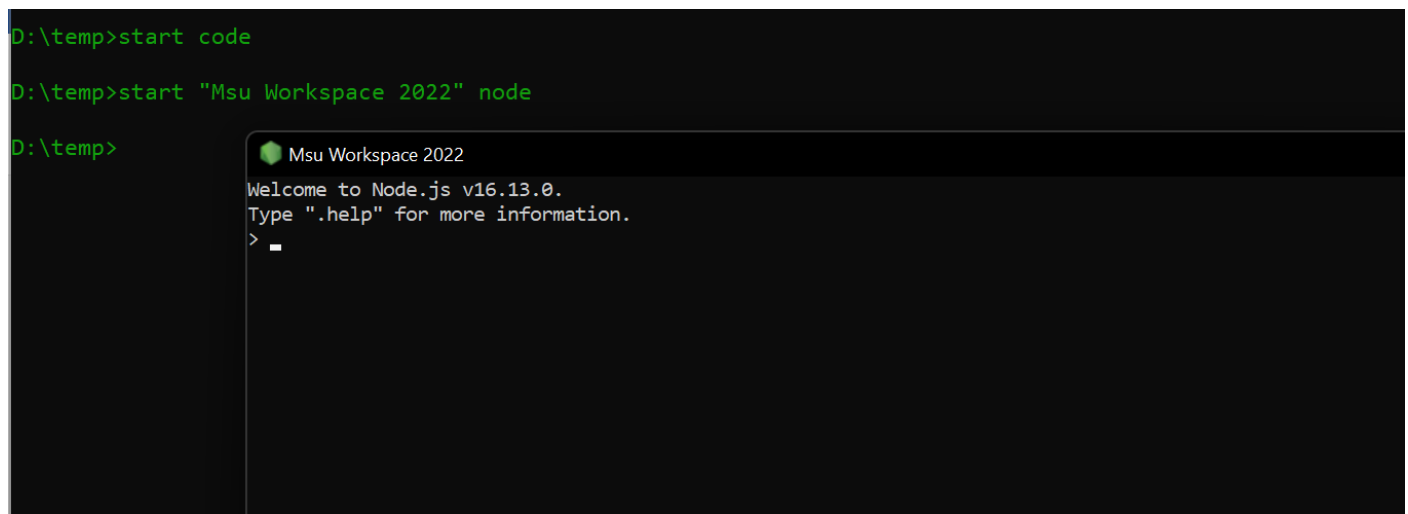
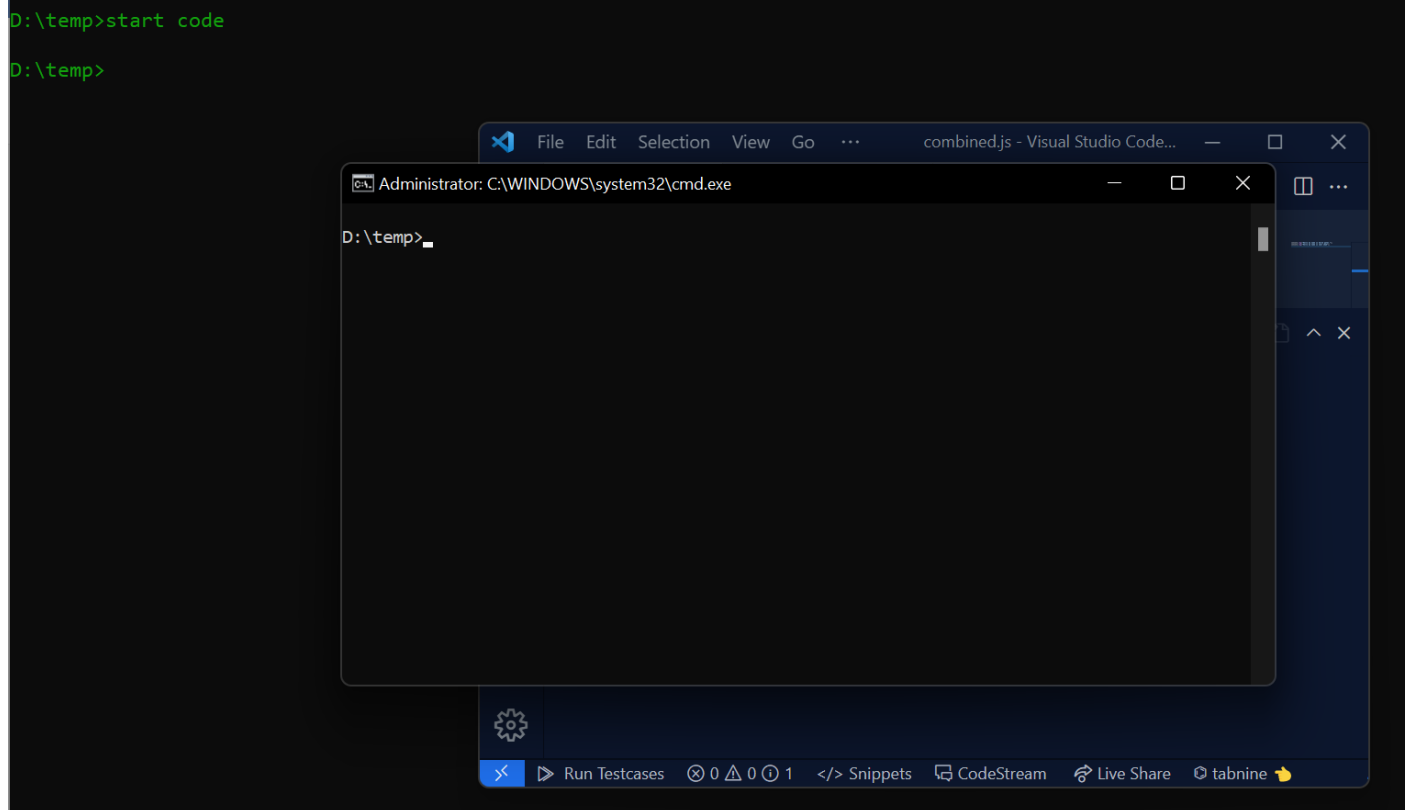
Description :-

- Starts a separate window to run a specified program or command.

Syntax :-

- start ["title"][program/command]

Usage :-



72) SUBST

Description :-

Associates a path with a drive letter

Syntax :-

- SUBST [drive1: [drive2:]path]
- SUBST drive1: /D

```
D:\temp>SUBST a: d:\temp

D:\temp>subst
A:\: => D:\temp
```

```
D:\temp>subst a: /D
D:\temp>subst
D:\temp>
```

```
- SYSTEMINFO [/S system [/U username [/P [password]]] [/FO
format]
```

```
D:\temp>systeminfo /fo table
```

Host Name	OS Name	OS Version	OS Manufacturer
OS Configuration	OS Build Type	Registered Owner	
red Organization	Product ID	Original Install Date	System Boot Time
System Manufacturer	System Model	System Type	Processor(s)
BIOS Version	Windows Directory	System Directory	Boot Device
Input Locale	Time Zone		System Locale
Total Physical Memory	Virtual Memory: Max Size	Virtual Memory: Available	Virtual Memory: In Use
Page File Location(s)	Domain	Logon Server	Hotfix(s)
		Network Card(s)	
		Hyper-V Requirements	

```
=====
```

```
SMIT-LAPTOP Microsoft Windows 11 Home Sing 10.0.22000 N/A Build 22000 Microsoft Corporation
```

```
Standalone Workstation Multiprocessor Free ASUS N/A
```

```
ASUSTeK COMPUTER INC. ZenBook UX425EA_UX42 x64-based PC 1 Processor(s) Installed., [01]: Intel64 Fam
```

```
i American Megatrends Internatio C:\WINDOWS C:\WINDOWS\system32 \Device\HarddiskVolume1 en-us;English (U
```

```
nited States) 00004009 (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi 7,888 MB
```

```
1,390 MB 14,544 MB 4,587 MB 9,957 MB C:\pagefile.sys
```

```
WORKGROUP \\SMIT-LAPTOP 5 Hotfix(s) Install, 2 NIC(s) Installed., [01]: Intel(R) Wi-Fi 6 AX201
```

```
160MHz, Connection Name: Wi-Fi, DHCP E A hypervisor has been detected. Features required for Hyper-V will not be di
```

```
splayed.
```

74) TASKLIST

Description :-

- Displays all currently running tasks including services.

Syntax :

- TASKLIST [/S system [/U username [/P [password]]]][/M [module] | /SVC | /V] [/FI filter] [/FO format]

/S	system	Specifies the remote system to connect to.
/U	[domain\]user	Specifies the user context under which the command should execute.
/P	[password]	Specifies the password for the given user context. Prompts for input if omitted.
/M	[module]	Lists all tasks currently using the given exe/dll name. If the module name is not specified all loaded modules are displayed.
/SVC		Displays services hosted in each process.
/APPS		Displays Store Apps and their associated processes.
/V		Displays verbose task information.
/FI	filter	Displays a set of tasks that match a given criteria specified by the filter.
/FO	format	Specifies the output format. Valid values: "TABLE", "LIST", "CSV".

Usage :

```
D:\temp>TASKLIST /V /FO TABLE
```

Image Name	PID	Session Name	Session#	Mem Usage	Status	User Name
CPU Time	Window Title					
System Idle Process	0	Services	0	8 K	Unknown	NT AUTHORITY\SYSTEM
System	21:13:12	N/A				
System	4	Services	0	2,960 K	Unknown	N/A
Secure System	0:03:36	N/A				
Secure System	104	Services	0	23,960 K	Unknown	NT AUTHORITY\SYSTEM
Registry	0:00:00	N/A				
Registry	168	Services	0	53,464 K	Unknown	NT AUTHORITY\SYSTEM
smss.exe	0:00:01	N/A				
smss.exe	620	Services	0	1,052 K	Unknown	NT AUTHORITY\SYSTEM
csrss.exe	0:00:00	N/A				
csrss.exe	972	Services	0	4,956 K	Unknown	NT AUTHORITY\SYSTEM
wininit.exe	0:00:01	N/A				
wininit.exe	744	Services	0	5,388 K	Unknown	NT AUTHORITY\SYSTEM
csrss.exe	0:00:00	N/A				
csrss.exe	712	Console	1	5,780 K	Running	NT AUTHORITY\SYSTEM
services.exe	0:00:04	N/A				
services.exe	908	Services	0	9,340 K	Unknown	NT AUTHORITY\SYSTEM
LsaIso.exe	0:00:35	N/A				
LsaIso.exe	948	Services	0	2,476 K	Unknown	NT AUTHORITY\SYSTEM
lsass.exe	0:00:00	N/A				
lsass.exe	768	Services	0	21,428 K	Unknown	NT AUTHORITY\SYSTEM
winlogon.exe	0:00:09	N/A				
winlogon.exe	1076	Console	1	8,816 K	Unknown	NT AUTHORITY\SYSTEM
svchost.exe	0:00:00	N/A				
svchost.exe	1200	Services	0	34,016 K	Unknown	NT AUTHORITY\SYSTEM
fontdrvhost.exe	0:02:15	N/A				
fontdrvhost.exe	1228	Services	0	2,444 K	Unknown	Font Driver Host\UMFD-0
fontdrvhost.exe	0:00:00	N/A				
fontdrvhost.exe	1236	Console	1	6,016 K	Unknown	Font Driver Host\UMFD-1
	0:00:01	N/A				

```
D:\temp>TASKLIST /APPS /V /FO TABLE
```

Image Name	PID	Session Name	Session#	Mem Usage	Status	User Name
Package Name	CPU Time	Window Title				
StartMenuExperienceHost.exe (App)	11024	Console	1	64,648 K	Running	SMIT-LAPT
OP\ASUS	0:00:03	Start				
Microsoft.Windows.StartMenuExperienceHost_10.0.220						
SearchHost.exe (CortanaUI)	10992	Console	1	65,828 K	Suspended	SMIT-LAPT
OP\ASUS	0:00:10	Search				
MicrosoftWindows.Client.CBS_1000.22000.434.0_x64__						
RuntimeBroker.exe (runtimebroker07f4358a809ac99a64	11160	Console	1	27,920 K	Running	SMIT-LAPT
OP\ASUS	0:00:00	OLEChannelWnd				
Microsoft.Windows.StartMenuExperienceHost_10.0.220						
RuntimeBroker.exe (runtimebroker07f4358a809ac99a64	11276	Console	1	54,336 K	Running	SMIT-LAPT
OP\ASUS	0:00:07	N/A				
MicrosoftWindows.Client.CBS_1000.22000.434.0_x64__						
YourPhone.exe (App)	11776	Console	1	15,012 K	Suspended	SMIT-LAPT
OP\ASUS	0:00:00	N/A				
Microsoft>YourPhone_1.21121.256.0_x64__8wekyb3d8bb						
backgroundTaskHost.exe (App)	12472	Console	1	27,848 K	Suspended	SMIT-LAPT
OP\ASUS	0:00:00	N/A				
DolbyLaboratories.DolbyAccess_3.11.277.0_x64__rz1t						
RuntimeBroker.exe (runtimebroker07f4358a809ac99a64	12692	Console	1	23,388 K	Unknown	SMIT-LAPT
OP\ASUS	0:00:00	N/A				
DolbyLaboratories.DolbyAccess_3.11.277.0_x64__rz1t						
RuntimeBroker.exe (runtimebroker07f4358a809ac99a64	14184	Console	1	22,076 K	Unknown	SMIT-LAPT
OP\ASUS	0:00:00	N/A				
Microsoft>YourPhone_1.21121.256.0_x64__8wekyb3d8bb						
TextInputHost.exe (InputApp)	14976	Console	1	1,20,384 K	Running	SMIT-LAPT
OP\ASUS	0:00:13	Windows Input Experience				
MicrosoftWindows.Client.CBS_1000.22000.434.0_x64__						
dllhost.exe (App)	15160	Console	1	13,144 K	Running	SMIT-LAPT

75) TASKKILL

Description :-

- This tool is used to terminate tasks by process id (PID) or image name.

Syntax :-

- TASKKILL [/S system [/U username [/P [password]]]]
{ [/FI filter] [/PID processid | /IM imagename] } [/T] [/F]

/S	system	Specifies the remote system to connect to.
/U	[domain\]user	Specifies the user context under which the command should execute.
/P	[password]	Specifies the password for the given user context. Prompts for input if omitted.
/FI	filter	Applies a filter to select a set of tasks. Allows "*" to be used. ex. imagename eq acme*
/PID	processid	Specifies the PID of the process to be terminated. Use TaskList to get the PID.
/IM	imagename	Specifies the image name of the process to be terminated. Wildcard '*' can be used to specify all tasks or image names.

/T		Terminates the specified process and any child processes which were started by it.
/F		Specifies to forcefully terminate the process(es).

Usage :

```
D:\temp>CALL msu.txt

D:\temp>TASKKILL /IM notepad.exe
SUCCESS: Sent termination signal to the process "Notepad.exe" with PID 8472.

D:\temp>
```

76) TIME

Description :-

- Displays or sets the system time.

Syntax :-

- TIME [/T | time]

Usage :

```
D:\temp>TIME
The current time is:  2:38:04.00
Enter the new time:

D:\temp>TIME/T
02:38

D:\temp>
```

77) TITLE

Description :-

- Sets the window title for a CMD.EXE session.

Syntax :-

- TITLE [string]

Usage :-

```
Administrator: Os Assignment 2

D:\temp>title Os Assignment 2

D:\temp>_
```

78) TREE

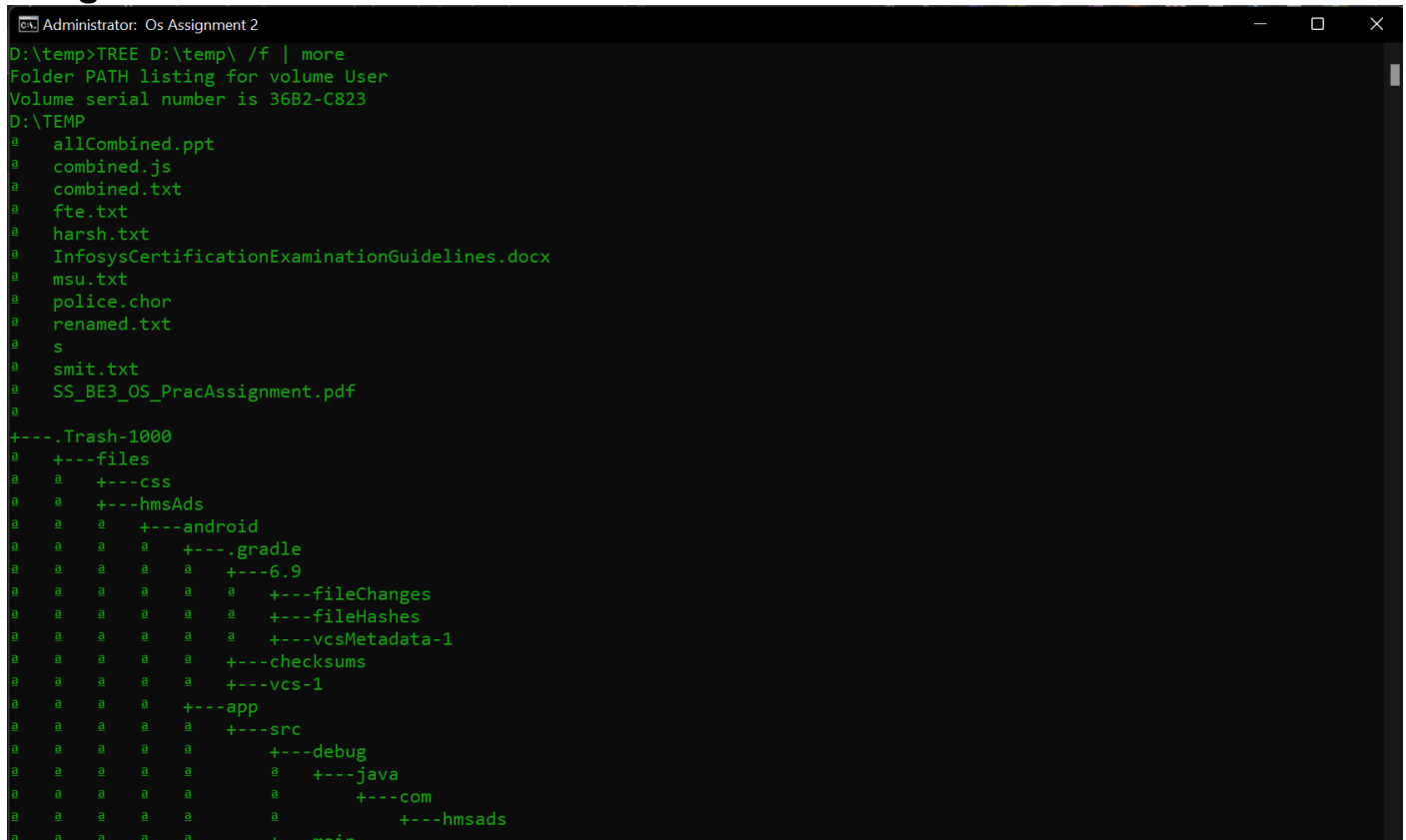
Description :-

- Graphically displays the directory structure of a drive or path.

Syntax :-

- TREE [drive:][path] [/F] [/A]
- /F Display the names of the files in each folder.
- /A Use ASCII instead of extended characters.

Usage :



```
Administrator: Os Assignment 2
D:\temp>TREE D:\temp\ /f | more
Folder PATH listing for volume User
Volume serial number is 36B2-C823
D:\TEMP
a  allCombined.ppt
a  combined.js
a  combined.txt
a  fte.txt
a  harsh.txt
a  InfosysCertificationExaminationGuidelines.docx
a  msu.txt
a  police.chor
a  renamed.txt
a  s
a  smit.txt
a  SS_BE3_OS_PracAssignment.pdf
a
+---.Trash-1000
a  +---files
a  a  +---css
a  a  +---hmsAds
a  a  a  +---android
a  a  a  a  +---gradle
a  a  a  a  a  +---6.9
a  a  a  a  a  a  +---fileChanges
a  a  a  a  a  a  +---fileHashes
a  a  a  a  a  a  +---vcsMetadata-1
a  a  a  a  a  a  +---checksums
a  a  a  a  a  a  +---vcs-1
a  a  a  a  a  +---app
a  a  a  a  a  +---src
a  a  a  a  a  +---debug
a  a  a  a  a  a  +---java
a  a  a  a  a  a  a  +---com
a  a  a  a  a  a  a  +---hmsads
a  a  a  a  a  a  a  a  +---main
```

79) TYPE

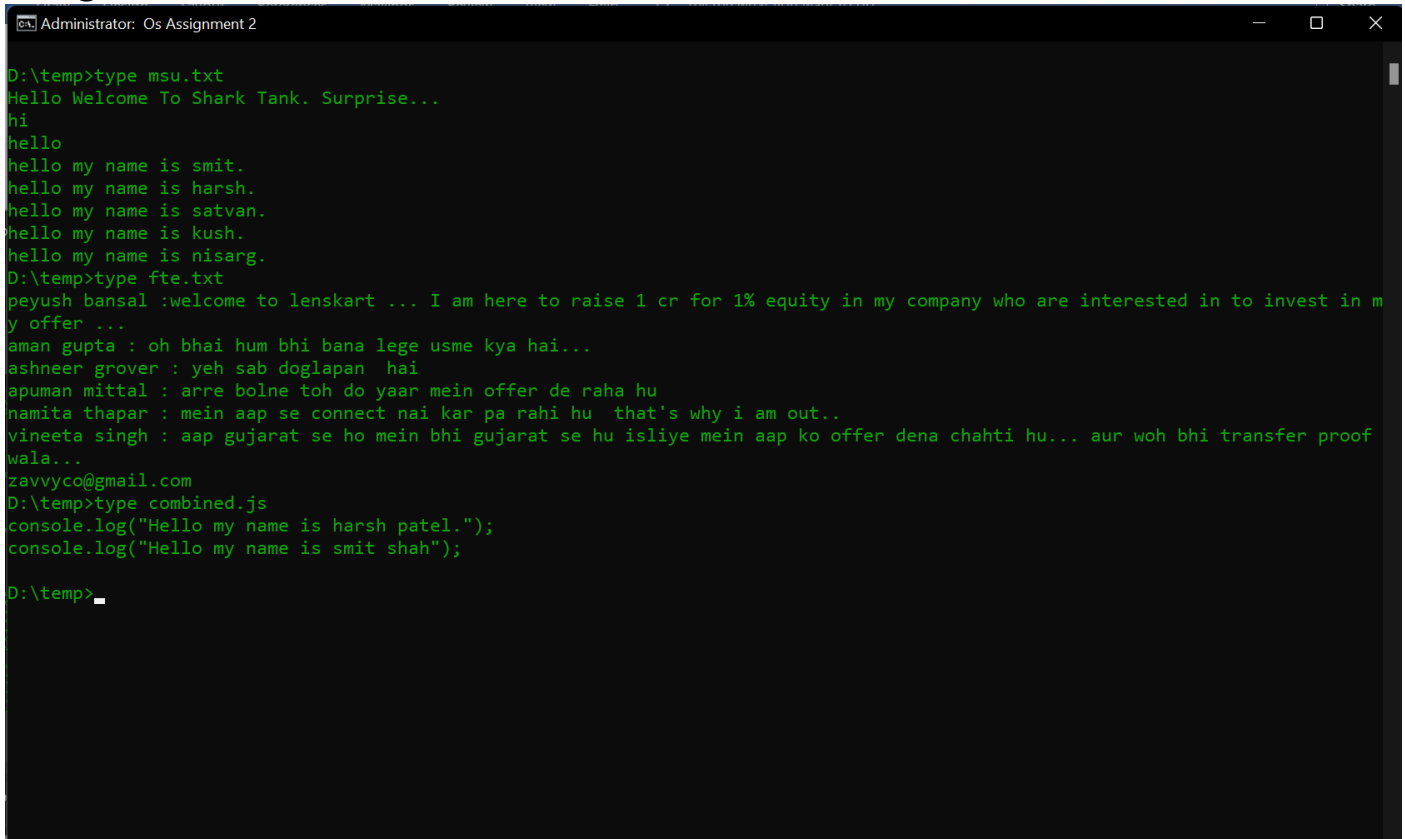
Description :-

- Displays the content of text file.

Syntax :-

- TYPE [drive:][path]filename

Usage :



```
Administrator: Os Assignment 2

D:\temp>type msu.txt
Hello Welcome To Shark Tank. Surprise...
hi
hello
hello my name is smit.
hello my name is harsh.
hello my name is satvan.
hello my name is kush.
hello my name is nisarg.
D:\temp>type fte.txt
peyush bansal :welcome to lenskart ... I am here to raise 1 cr for 1% equity in my company who are interested in to invest in m
y offer ...
aman gupta : oh bhai hum bhi bana lege usme kya hai...
ashneer grover : yeh sab doglapan hai
apuman mittal : arre bolne toh do yaar mein offer de raha hu
namita thapar : mein aap se connect nai kar pa rahi hu that's why i am out..
vineeta singh : aap gujarat se ho mein bhi gujarat se hu isliye mein aap ko offer dena chahti hu... aur woh bhi transfer proof
wala...
zavvyco@gmail.com
D:\temp>type combined.js
console.log("Hello my name is harsh patel.");
console.log("Hello my name is smit shah");
D:\temp>_
```

80) VER

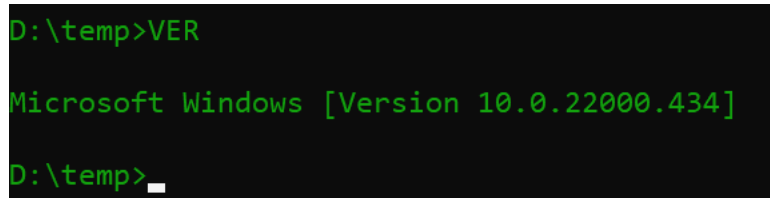
Description :-

- Displays the Windows version.

Syntax :-

- VER

Usage :



```
D:\temp>VER

Microsoft Windows [Version 10.0.22000.434]

D:\temp>_
```

81) VERIFY

Description :-

- Tells Windows whether to verify that your files are written correctly to a disk.

Syntax :-

- VERIFY [ON|OFF]

Usage :

```
D:\temp>VERIFY
VERIFY is off.

D:\temp>VERIFY ON

D:\temp>VERIFY
VERIFY is on.

D:\temp>_
```

82) VOL

Description :-

- Displays a disk volume label and serial number.

Syntax :-

- VOL[drive:]

Usage :

```
D:\temp>vol d:
Volume in drive D is User
Volume Serial Number is 36B2-C823
```

83) XCOPY

Description :-

- Copies files and directory trees.

Syntax :-

```
XCOPY source [destination] [/A | /M] [/D[:date]] [/P] [/S
[/E]] [/V] [/W][/C] [/I] [/Q] [/F] [/L] [/G] [/H] [/R] [/T]
[/U] [/K] [/N] [/O] [/X] [/Y] [/Y] [/Z] [/B] [/J]
[/EXCLUDE:file1[+file2][+file3]...] [/COMPRESS]
```

- .obj extension respectively.

/P	Prompts you before creating each destination file.
/S	Copies directories and subdirectories except empty ones.

/E	Copies directories and subdirectories, including empty ones. Same as /S /E. May be used to modify /T.
/V	Verifies the size of each new file.
/W	Prompts you to press a key before copying.
/C	Continues copying even if errors occur.
/I	If destination does not exist and copying more than one file, assumes that destination must be a directory.
/Q	Does not display file names while copying.
/F	Displays full source and destination file names while copying.
/L	Displays files that would be copied.
/G	Allows the copying of encrypted files to destination that does not support encryption.
/H	Copies hidden and system files also.
/R	Overwrites read only files.
/T	Creates directory structure, but does not copy files. Does not include empty directories or subdirectories. /T /E includes empty directories and subdirectories.

Usage :

```
D:\temp>xcopy combined.txt .\os /l/p
D:\combined.txt (Y/N)? y
Overwrite D:\temp\os\combined.txt (Yes/No/All)? a
1 File(s)

D:\temp>cd os

D:\temp\os>dir
Volume in drive D is User
Volume Serial Number is 36B2-C823

Directory of D:\temp\os

11-02-2022  23:42    <DIR>          .
11-02-2022  01:15                58 allCombined.doc
11-02-2022  16:21    <DIR>          assignments
11-02-2022  01:14                58 combined.txt
11-02-2022  15:00           532 fte.txt
                3 File(s)                648 bytes
                2 Dir(s)  33,884,848,128 bytes free
```

84) WMIC

Description :-

- Displays WMI information inside interactive command shell.

Syntax :-

- [global switches]<command>

Usage :-

- **DEPRECATED**
-

DOS *COMMANDS*

Sr. No	Commands	Description
1	ASSOC	Displays or modifies file extension associations.
2	ATTRIB	Displays or changes file attributes.
3	BREAK	Sets or clears extended CTRL+C checking.
4	BCDEDIT	Sets properties in boot database to control boot loading.
5	CACLS	Displays or modifies access control lists (ACLs) of files.
6	CALL	Calls one batch program from another.
7	CD	Displays the name of or changes the current directory.
8	CHCP	Displays or sets the active code page number.
9	CHDIR	Displays the name of or changes the current directory.
10	CHKDSK	Checks a disk and displays a status report.
11	CHKNTFS	Displays or modifies the checking of disk at boot time.
12	CLS	Clears the screen.
13	CMD	Starts a new instance of the Windows command interpreter.
14	COLOR	Sets the default console foreground and background colors.
15	COMP	Compares the contents of two files or sets of files.
16	COMPACT	Displays or alters the compression of files on NTFS partitions.
17	CONVERT	Converts FAT volumes to NTFS. You cannot convert the current drive.
18	COPY	Copies one or more files to another location.
19	DATE	Displays or sets the date.
20	DEL	Deletes one or more files.
21	DIR	Displays a list of files and subdirectories in a directory.
22	DISKPART	Displays or configures Disk Partition properties.
23	DOSKEY	Edits command lines, recalls Windows commands, and creates macros.
24	DRIVERQUERY	Displays current device driver status and properties.
25	ECHO	Displays messages, or turns command echoing on or off.
26	ENDLOCAL	Ends localization of environment changes in a batch file.
27	ERASE	Deletes one or more files.
28	EXIT	Quits the CMD.EXE program (command interpreter).
29	FC	Compares two files or sets of files, and displays the differences between them.
30	FIND	Searches for a text string in a file or files.
31	FINDSTR	Searches for strings in files.

32	FOR	Runs a specified command for each file in a set of files.
33	FORMAT	Formats a disk for use with Windows.
34	FSUTIL	Displays or configures the file system properties.
35	FTYPE	Displays or modifies file types used in file extension associations.
36	GOTO	Directs the Windows command interpreter to a labeled line in a batch program.
37	GPRESULT	Displays Group Policy information for machine or user.
38	GRAFTABL	Enables Windows to display an extended character set in graphics mode.
39	HELP	Provides Help information for Windows commands.
40	ICACLS	Display, modify, backup, or restore ACLs for files and directories.
41	IF	Performs conditional processing in batch programs.
42	LABEL	Creates, changes, or deletes the volume label of a disk.
43	MD	Creates a directory.
44	MKDIR	Creates a directory.
45	MKLINK	Creates Symbolic Links and Hard Links
46	MODE	Configures a system device.
47	MORE	Displays output one screen at a time.
48	MOVE	Moves one or more files from one directory to another directory.
49	OPENFILES	Displays files opened by remote users for a file share.
50	PATH	Displays or sets a search path for executable files.
51	PAUSE	Suspends processing of a batch file and displays a message.
52	POPD	Restores the previous value of the current directory saved by PUSHHD.
53	PRINT	Prints a text file.
54	PROMPT	Changes the Windows command prompt.
55	PUSHHD	Saves the current directory then changes it.
56	RD	Removes a directory.
57	RECOVER	Recovers readable information from a bad or defective disk.
58	REM	Records comments (remarks) in batch files or CONFIG.SYS.
59	REN	Renames a file or files.
60	RENAME	Renames a file or files.
61	REPLACE	Replaces files.
62	RMDIR	Removes a directory.
63	ROBOCOPY	Advanced utility to copy files and directory trees

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

1) ASSOC

Description :-

Displays or modifies file extension associations

Syntax :-

ASSOC [.ext[=[fileType]]]

.ext	Specifies the file extension to associate the file type with
fileType	Specifies the file type to associate with the file extension

Usage :-

It is used to associate the extension which are not known to dos . So it can recognize the file with particular extension and call the corresponding program for executing that file associated with it .

```
D:\temp>assoc .txt
.txt=txtfilelegacy

D:\temp>assoc .msu=txtfilelegacy
.msu=txtfilelegacy

D:\temp>assoc | find "txtfilelegacy"
.msu=txtfilelegacy
.txt=txtfilelegacy

D:\temp>_
```

2) ATTRIB

Description :-

Displays or changes file attributes.

Syntax :-

ATTRIB [+R | -R] [+A | -A] [+S | -S] [+H | -H] [+O | -O] [+I | -I] [+X | -X] [+P | -P] [+U | -U][drive:][path][filename] [/S [/D]] [/L]

+	Sets an attribute.
-	Clears an attribute.
R	Read-only file attribute.
A	Archive file attribute.
S	System file attribute.
H	Hidden file attribute.
O	Offline attribute.
I	Not content indexed file attribute.
X	No scrub file attribute.
V	Integrity attribute.
P	Pinned attribute.
U	Unpinned attribute.
B	SMR Blob attribute.
[drive][path][filename]	Specifies a file or files for attrib to process.
/S	Processes matching files in the current folder
/D	Processes folders as well.
/L	Work on the attributes of the Symbolic Link versus the target of the Symbolic Link

Usage :-

It is used to associate the extension which are not known to dos . So it can recognize the file with particular extension and call the corresponding program associated with it .

```
D:\temp>attrib
A             D:\temp\.txt
A   H         D:\temp\assoc.txt
A             D:\temp\harsh.chor
A             D:\temp\harsh.txt
A             D:\temp\s
A             D:\temp\SS_BE3_OS_PracAssignment.pdf

D:\temp>attrib -h "assoc.txt"
A             D:\temp\assoc.txt

D:\temp>attrib +r "assoc.txt"
A             D:\temp\assoc.txt

D:\temp>attrib +h "assoc.txt"
A             D:\temp\assoc.txt

D:\temp>attrib
A             D:\temp\.txt
A   HR        D:\temp\assoc.txt
A             D:\temp\harsh.chor
A             D:\temp\harsh.txt
A             D:\temp\s
A             D:\temp\SS_BE3_OS_PracAssignment.pdf
```


3) BREAK

Description :-

Sets or Clears Extended CTRL+C checking on DOS system

This is present for Compatibility with DOS systems. It has no effect under Windows.

Syntax :-

BREAK=[on|off]

Usage :-

Deprecated

4) BCDEDIT

Description :-

Boot Configuration Data Store Editor

Usage :-

Boot Configuration Data (BCD) files provide a store that is used to describe boot applications and boot application settings.

BCDEdit is a command-line tool for managing BCD. It can be used for a variety of purposes, including creating new stores, modifying existing stores, and adding boot menu options.

```

D:\temp>bcdedit

Windows Boot Manager
-----
identifier                {bootmgr}
device                    partition=\Device\HarddiskVolume1
path                      \EFI\MICROSOFT\BOOT\BOOTMGFW.EFI
description               Windows Boot Manager
locale                    en-US
inherit                   {globalsettings}
default                   {current}
resumeobject              {a8d53c9a-2a52-11ec-a2f3-bc17b8cbc0db}
displayorder              {current}
toolsdisplayorder         {memdiag}
timeout                   30

Windows Boot Loader
-----
identifier                {current}
device                    partition=C:
path                      \WINDOWS\system32\winload.efi
description               Windows 11
locale                    en-US
inherit                   {bootloadersettings}
recoverysequence          {a8d53c9d-2a52-11ec-a2f3-bc17b8cbc0db}
displaymessageoverride    Recovery
recoveryenabled           Yes
isolatedcontext           Yes
allowedinmemorysettings  0x15000075
osdevice                  partition=C:
systemroot                \WINDOWS
resumeobject              {a8d53c9a-2a52-11ec-a2f3-bc17b8cbc0db}
nx                        OptIn
bootmenupolicy            Standard
hypervisorlaunchtype     Auto

```

5) CACLS

Description :- Displays or modifies access control lists (ACLs) of files

Syntax: CACLS filename [/T] [/M] [/L] [/S[:SDDL]] [/E] [/C] [/G user:perm]
 [/R user [...]] [/P user:perm [...]] [/D user [...]]

6) CALL

Description : Calls one batch program from another.

Syntax: CALL [drive:][path]filename [batch-parameters]

Usage : It is used to call (open) any file with the path specified after call command or call any program from other batch program.

```
D:\temp>call "d:\temp\harsh.txt"
```

7) CD

Description : It is used to change directory also to display the name and path of directory.

Syntax: **CD [/D] [drive:][path]**
CD [..]

.. Specifies that you want to change to the parent directory.

Usage :

```
D:\temp>cd "D:\Professional\Software"  
D:\Professional\Software>cd  
D:\Professional\Software  
D:\Professional\Software>cd ..
```

8) CHCP

Description : Displays or sets the active code page number.

Syntax: **CHCP[nnn]**
nnn specifies a code page number.

Usage :

- The **chcp** command is used to supplement the **international keyboard and character set information**, allowing MS-DOS to be used in other countries and with different languages.
- Before the **chcp** command can be used, the **nlsfunc** must be loaded, and the country. sys must be loaded into the config

```
D:\Professional>chcp
Active code page: 437

D:\Professional>chcp 850
Active code page: 850

D:\Professional>chcp
Active code page: 850
```

9) CHDIR :

-same as cd

10) CHKDSK

Description : Checks a disk and displays a status report.

Syntax:

CHKDSK [volume[[path]filename]] [/F] [/V] [/R] [/X] [/I] [/C] [/L[:size]] [/B] [/scan] [/spotfix]

Options:

chkdsk cross-references the directory of files with the file system to verify that they match.

/f	fixes any structural issues with the file system and directory, correcting inconsistencies between the two.
/r	searches for and fixes corrupted parts of the hard drive (while also running chkdsk /f). Sometimes it can't fix the unusable or damaged sectors that it finds.
/x	dismounts a drive so that it can be checked and fixed. Running this command also runs /f.
/v	shows the path and name of all files while running a check.