

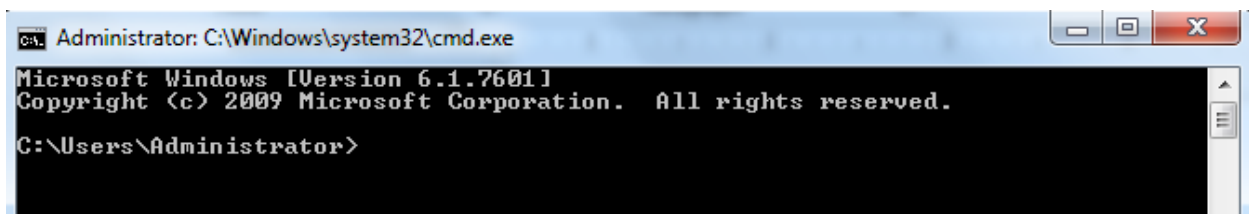
## DOS

Short for **Microsoft Disk Operating System**, MS-DOS is a non-graphical command line operating system derived from 86-DOS that was created for IBM compatible computers. MS-DOS originally written by **Tim Paterson** and introduced by Microsoft in **August 1981** and was last updated in 1994 when MS-DOS 6.22 was released. MS-DOS allows the user to navigate, open, and otherwise manipulate files on their computer from a command line instead of a GUI like Windows.

## DOS Commands

### Get to a Command Prompt in Windows

1. Click start  
Type cmd & press enter.

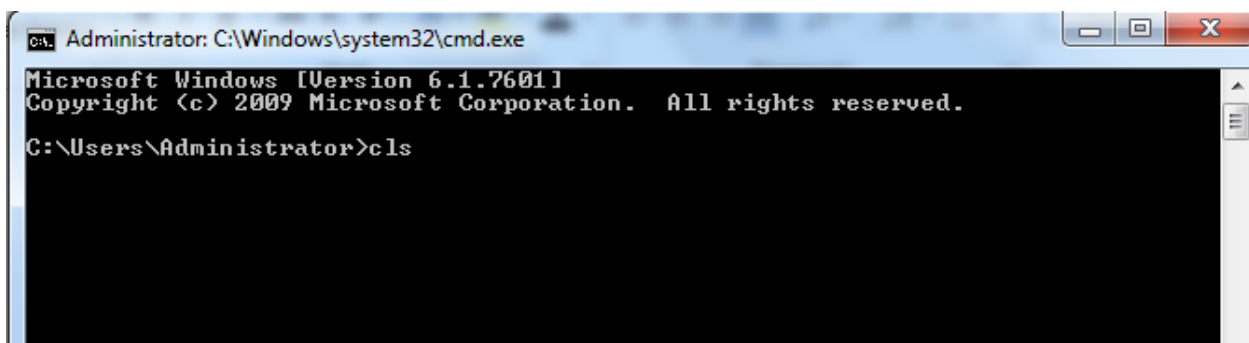


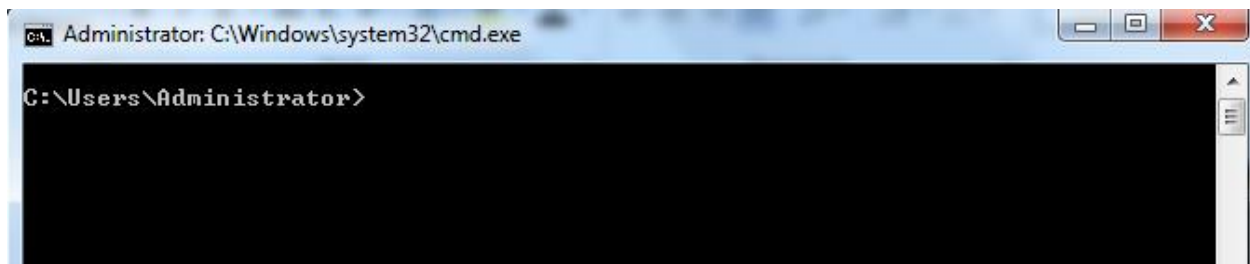
### Internal Commands:

#### 1) CLS (Clear Screen)

Running the cls command at the command prompt would clear your screen of all previous text and only return the prompt. It does not clear the user's history of commands.

### CLS

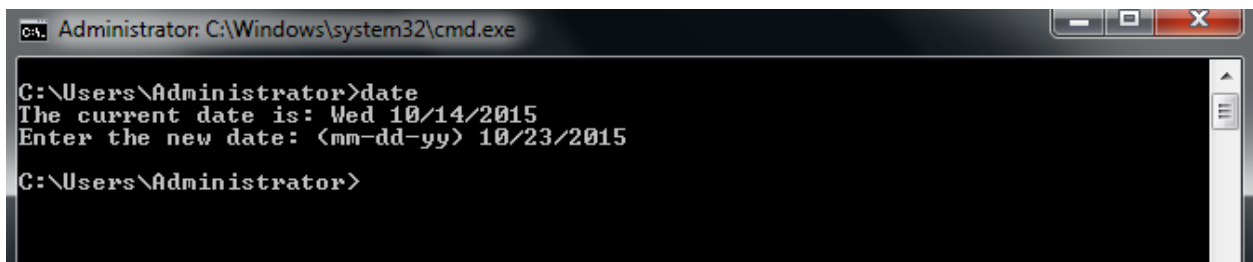




## 2) DATE

The date command can be used to look at the current date of the computer as well as change the date to an alternate date.

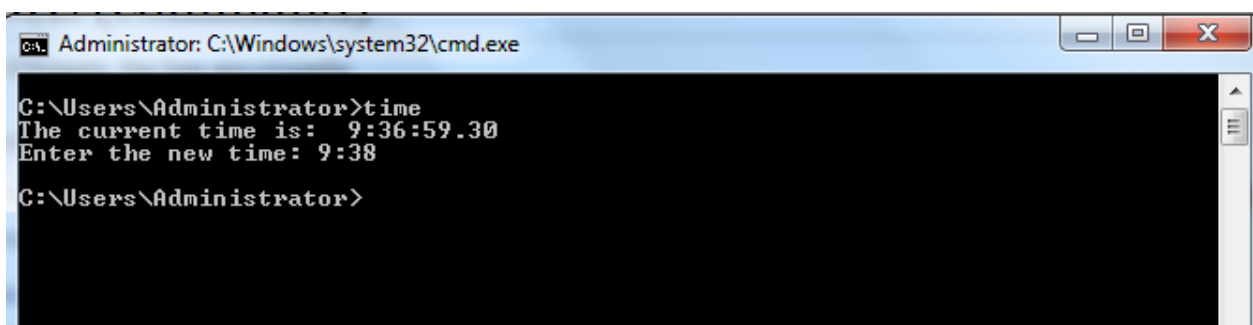
### DATE



## 3) TIME

Time command is used to display and set the current system time of the operating system.

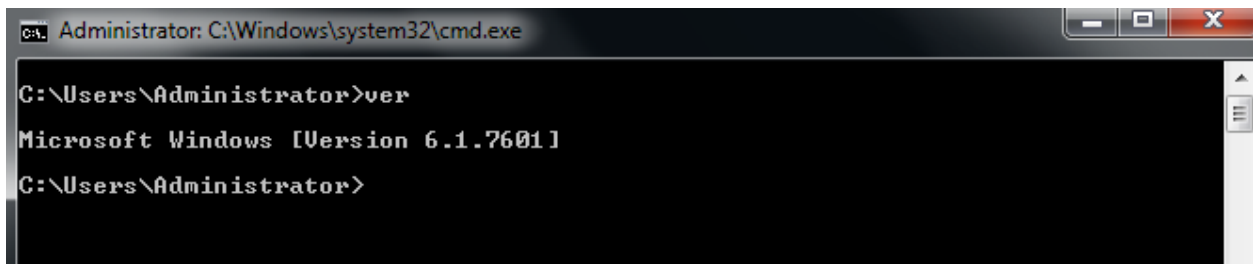
### TIME



## 4) VER (Version)

VER will tell you what version of DOS you are using.

## VER



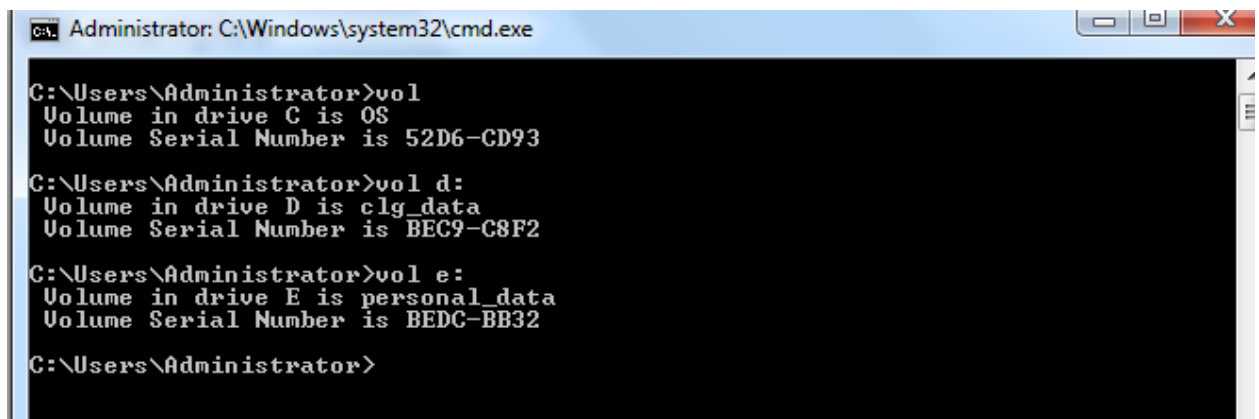
```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\Administrator>ver
Microsoft Windows [Version 6.1.7601]
C:\Users\Administrator>
```

### 5) VOL (Volume)

Displays the volume information about the designated drive.

## VOL



```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\Administrator>vol
Volume in drive C is OS
Volume Serial Number is 52D6-CD93

C:\Users\Administrator>vol d:
Volume in drive D is clg_data
Volume Serial Number is BEC9-C8F2

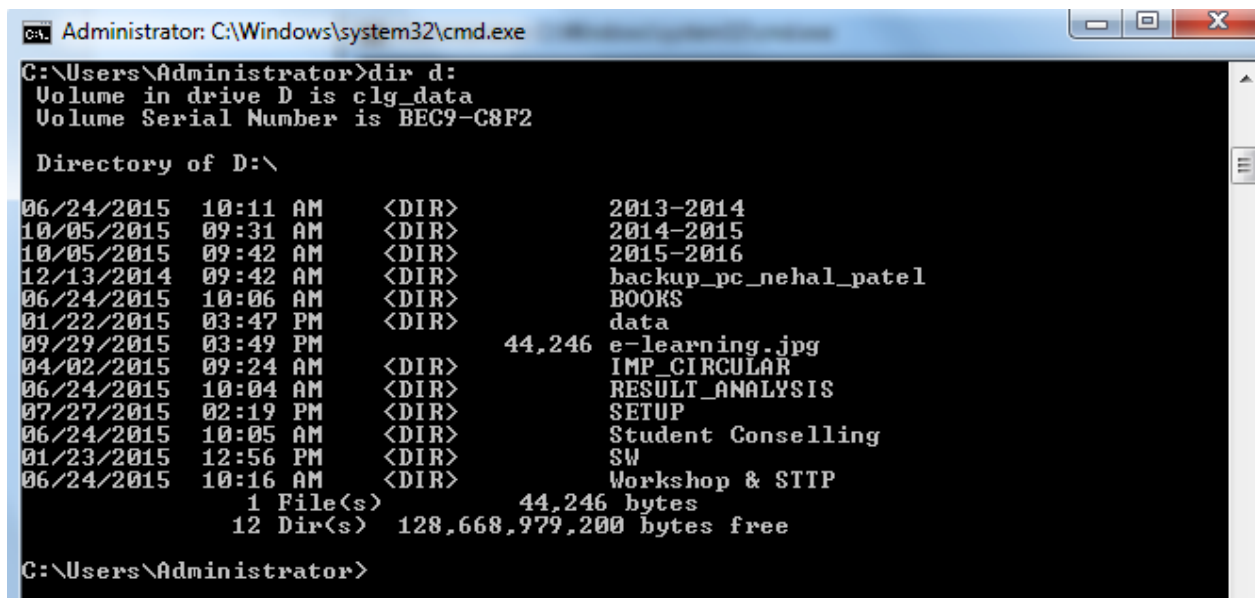
C:\Users\Administrator>vol e:
Volume in drive E is personal_data
Volume Serial Number is BEDC-BB32

C:\Users\Administrator>
```

### 6) DIR (Directory)

The dir command allows you to see the available files and directories in the current directory. The dir command also shows the last modification date and time, as well as the file size.

## DIR drivename:



```
Administrator: C:\Windows\system32\cmd.exe
C:\Users\Administrator>dir d:
Volume in drive D is clg_data
Volume Serial Number is BEC9-C8F2


Directory of D:\

06/24/2015  10:11 AM    <DIR>          2013-2014
10/05/2015  09:31 AM    <DIR>          2014-2015
10/05/2015  09:42 AM    <DIR>          2015-2016
12/13/2014  09:42 AM    <DIR>          backup_pc_nehal_patel
06/24/2015  10:06 AM    <DIR>          BOOKS
01/22/2015  03:47 PM    <DIR>          data
09/29/2015  03:49 PM    <DIR>          44,246 e-learning.jpg
04/02/2015  09:24 AM    <DIR>          IMP_CIRCULAR
06/24/2015  10:04 AM    <DIR>          RESULT_ANALYSIS
07/27/2015  02:19 PM    <DIR>          SETUP
06/24/2015  10:05 AM    <DIR>          Student Counselling
01/23/2015  12:56 PM    <DIR>          SW
06/24/2015  10:16 AM    <DIR>          Workshop & STTP
               1 File(s)      44,246 bytes
               12 Dir(s)  128,668,979,200 bytes free

C:\Users\Administrator>
```

If you want to create new .txt file in C:\ using CMD then type

**dir> filename.txt**

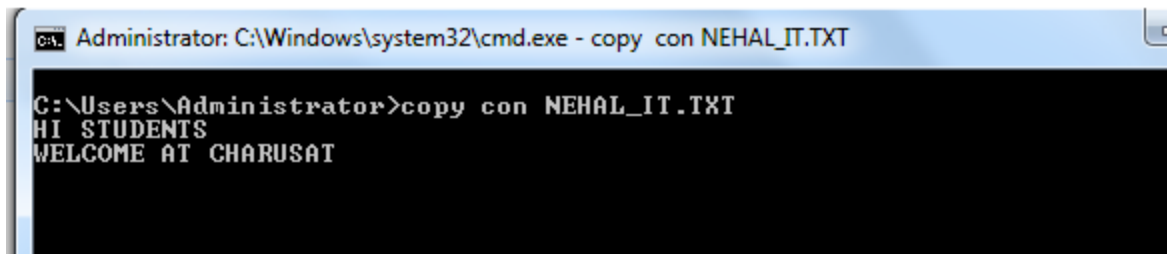


```
Administrator: C:\Windows\system32\cmd.exe
C:\Users\Administrator>DIR> XYZ.TXT
C:\Users\Administrator>
```

## 7) Copy con

Copy con is an MS-DOS and Windows command line command that allows the creation of a file through the command prompt.

**copy con filename.txt**



```
Administrator: C:\Windows\system32\cmd.exe - copy con NEHAL_IT.TXT

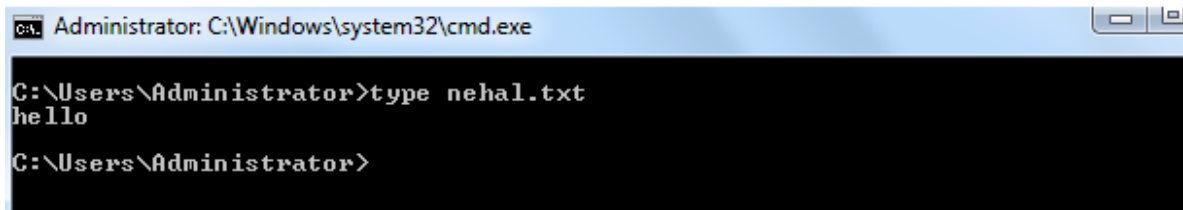
C:\Users\Administrator>copy con NEHAL_IT.TXT
HI STUDENTS
WELCOME AT CHARUSAT
```

After this command is typed, you'll be returned to a blank line, which is the start of your file. Enter the lines you want to insert into the file and, when done, press **Ctrl + Z** to create the file. If you want to cancel the creation of the file, press **Ctrl + C**.

## 8) TYPE

Allows the user to see the contents of a file. To edit the files, the user would need to use either edit or copy con.

**Type [drive:][path]filename**



```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\Administrator>type nehal.txt
hello

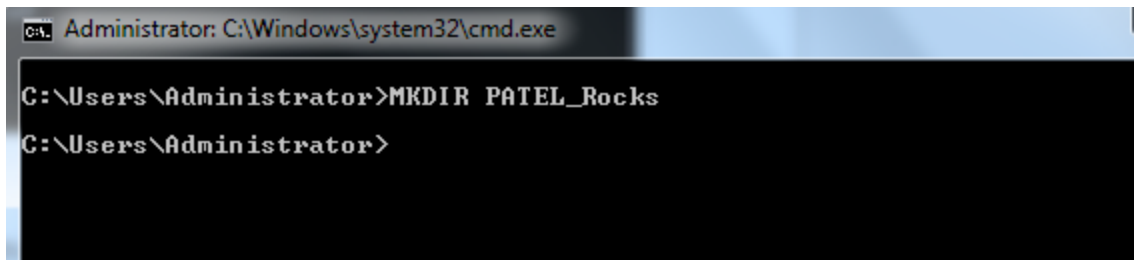
C:\Users\Administrator>
```

## 9) MKDIR

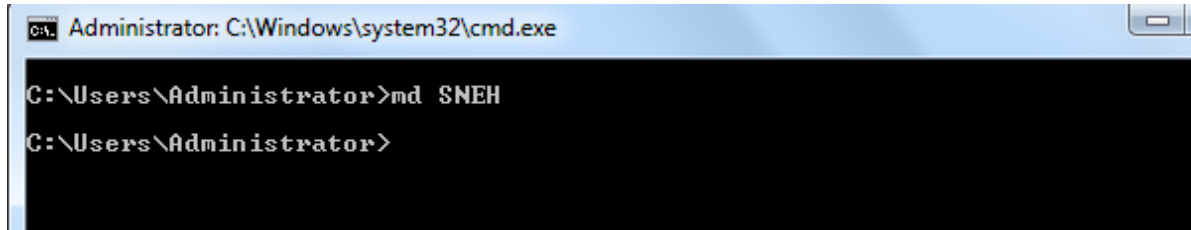
Allows you to create your own directories in MS-DOS.

**MKDIR [drive:]path**

**MD [drive:]path**



```
C:\Windows\system32\cmd.exe
C:\Users\Administrator>MKDIR PATEL_Rocks
C:\Users\Administrator>
```



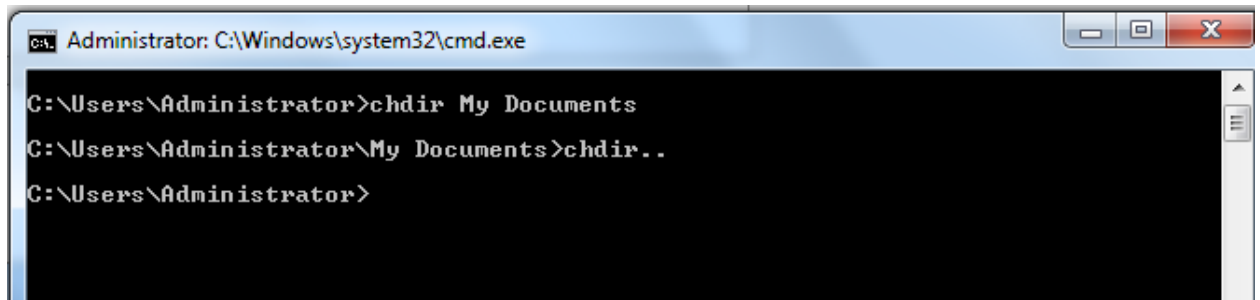
```
C:\Windows\system32\cmd.exe
C:\Users\Administrator>md SNEH
C:\Users\Administrator>
```

#### 10) CHDIR (CD)

Chdir (Change Directory) is a command used to switch directories in MS DOS.

**chdir\**

**chdir..**

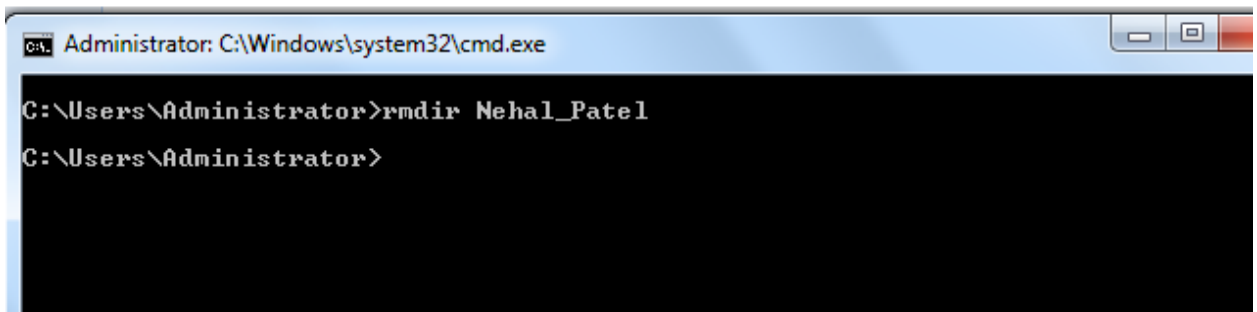


```
C:\Windows\system32\cmd.exe
C:\Users\Administrator>chdir My Documents
C:\Users\Administrator\My Documents>chdir..
C:\Users\Administrator>
```

#### 11) RMDIR

Removes an empty directory in MS-DOS.

**rmdir dirname**



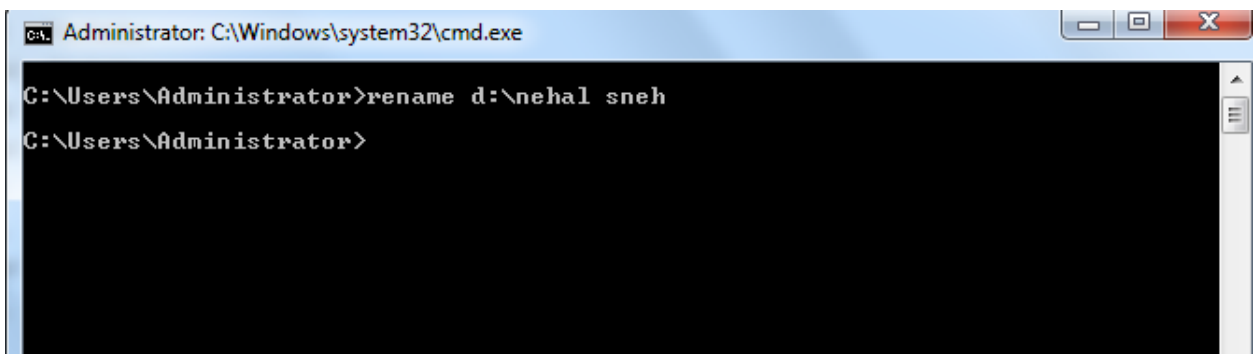
```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\Administrator>rmdir Nehal_Patel
C:\Users\Administrator>
```

## 12) RENAME

Used to rename files and directories from the original name to a new name.

**rename c:\computer hope**

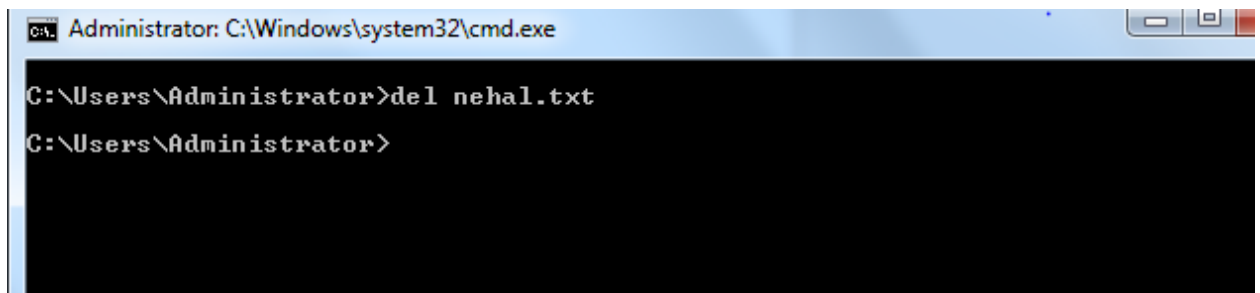


```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\Administrator>rename d:\nehal sneh
C:\Users\Administrator>
```

## 13) DEL

Del is a command used to delete files from the computer.

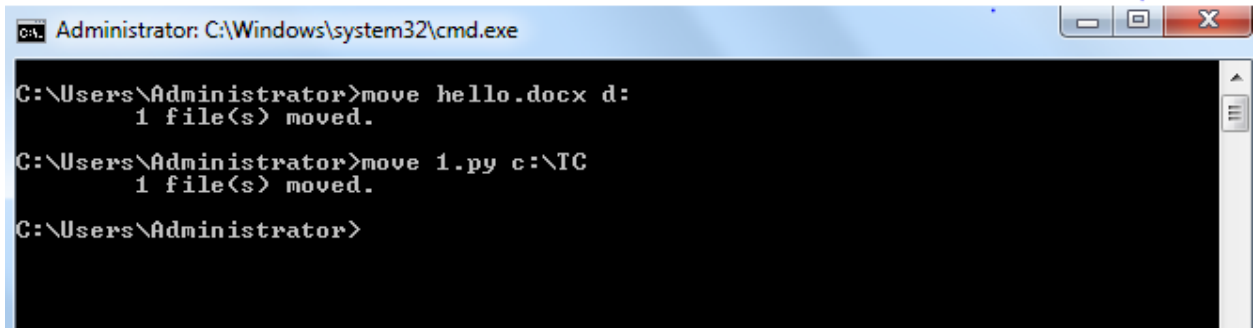


```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\Administrator>del nehal.txt
C:\Users\Administrator>
```

**14) MOVE**

Allows you to move files or directories from one folder to another, or from one drive to another.



```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\Administrator>move hello.docx d:
1 file(s) moved.

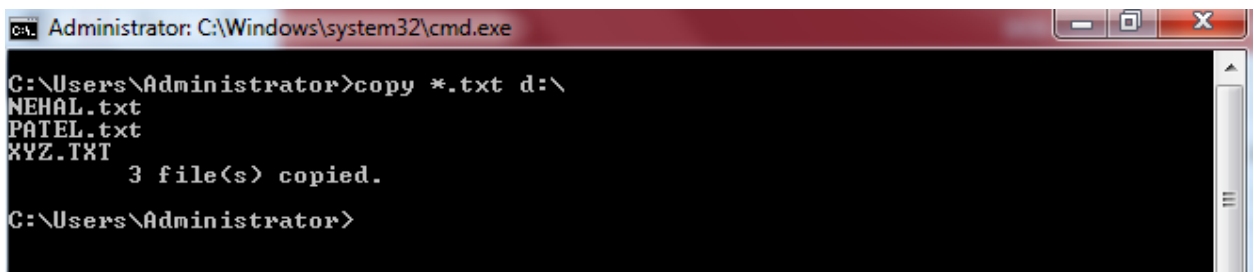
C:\Users\Administrator>move 1.py c:\TC
1 file(s) moved.

C:\Users\Administrator>
```

**15) COPY**

Allows the user to copy one or more files to an alternate location.

**copy \*.txt d:\**



```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\Administrator>copy *.txt d:\
NEHAL.txt
PATEL.txt
XYZ.TXT
3 file(s) copied.

C:\Users\Administrator>
```

**16) DOSKEY**

Doskey is an MS-DOS utility that allows a user to keep a history of commands used on the computer. Doskey allows frequently used commands to be used without having to type the command each time its needed.



```

Administrator: C:\Windows\system32\cmd.exe

C:\Users\Administrator>DOSKEY /HISTORY
CLS
DOSKEY /HISTORY
C:\Users\Administrator>

```

### Option keys

<b>UP,DOWN</b>	arrows recall commands
<b>Esc</b>	clears current command
<b>F7</b>	displays command history
<b>Alt+F7</b>	clears command history
<b>[chars]F8</b>	searches for command beginning with [chars]
<b>F9</b>	selects a command by number
<b>Alt+F10</b>	clears macro definitions

## 17) PATH

Path is used to specify the location where MS-DOS looks when using a command. Typing "path" by itself shows the current path information.

```

Administrator: C:\Windows\system32\CMD.exe

C:\Users\Administrator>PATH
PATH=C:\Program Files (x86)\Intel\iCLS Client\;C:\Program Files\Intel\iCLS Client\;C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:\Windows\System32\WindowsPowerShell\v1.0\;C:\Program Files\Intel\Intel(R) Management Engine Components\DAL;C:\Program Files\Intel\Intel(R) Management Engine Components\IPT;C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\DAL;C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\IPT;C:\Program Files\MATLAB\R2012a\runtime\win64;C:\Program Files\MATLAB\R2012a\bin;C:\Program Files\MiKTeX 2.9\miktex\bin\x64\;c:\users\administrator\AppData\Local\enthought\canopy\user\scripts;C:\Users\Administrator\AppData\Local\Enthought\Canopy\User;C:\Users\Administrator\AppData\Local\Enthought\Canopy\User\Scripts
C:\Users\Administrator>

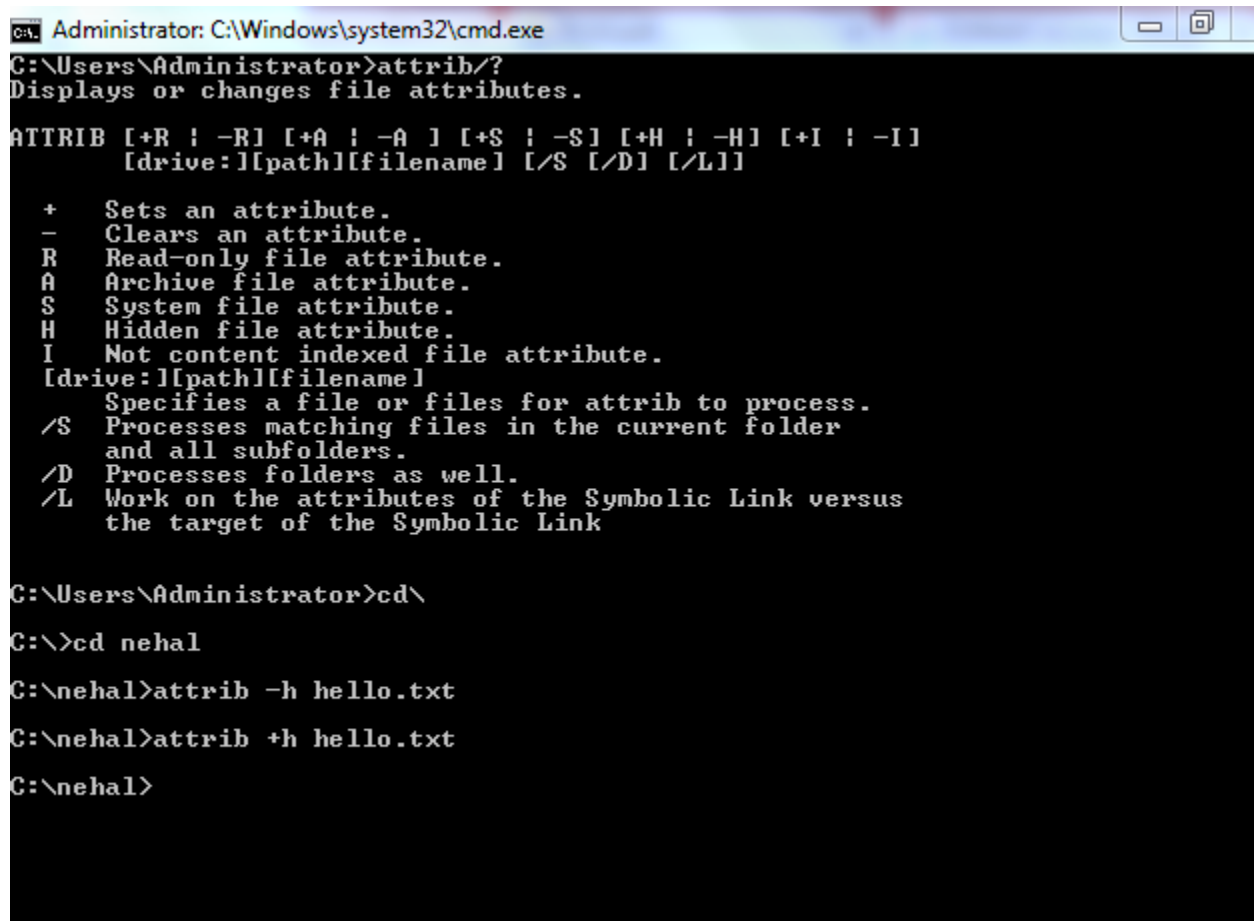
```

## External Commands:

### 1) ATTRIB

Attrib allows a user to change the attributes of a file or files.

R	Read-only file attribute.
A	Archive file attribute.
H	Hidden file attribute.



```

Administrator: C:\Windows\system32\cmd.exe
C:\Users\Administrator>attrib/?
Displays or changes file attributes.

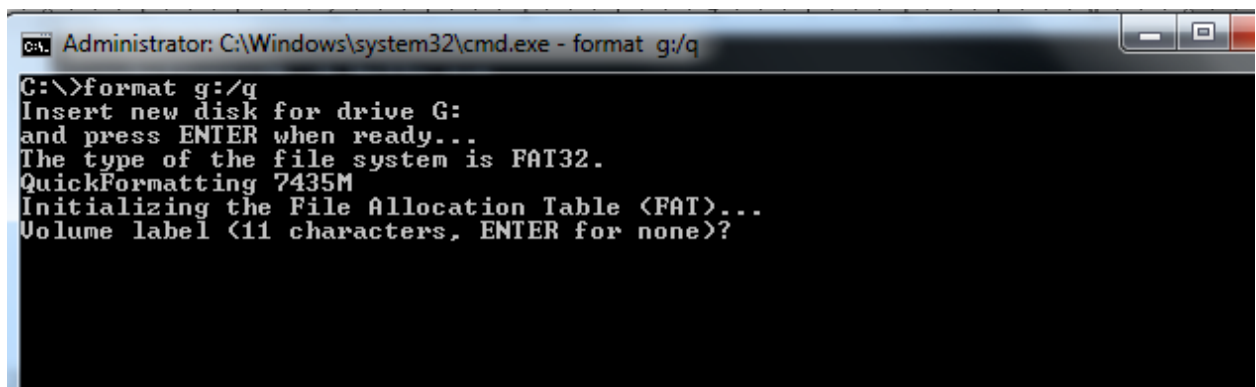
ATTRIB [+R | -R] [+A | -A ] [+S | -S] [+H | -H] [+I | -I]
        [drive:][path][filename] [/S [/D] [/L]]

+    Sets an attribute.
-    Clears an attribute.
R    Read-only file attribute.
A    Archive file attribute.
S    System file attribute.
H    Hidden file attribute.
I    Not content indexed file attribute.
[drive:][path][filename]
    Specifies a file or files for attrib to process.
/S   Processes matching files in the current folder
    and all subfolders.
/D   Processes folders as well.
/L   Work on the attributes of the Symbolic Link versus
    the target of the Symbolic Link

C:\Users\Administrator>cd\
C:\>cd nehal
C:\nehal>attrib -h hello.txt
C:\nehal>attrib +h hello.txt
C:\nehal>
  
```

### 2) FORMAT

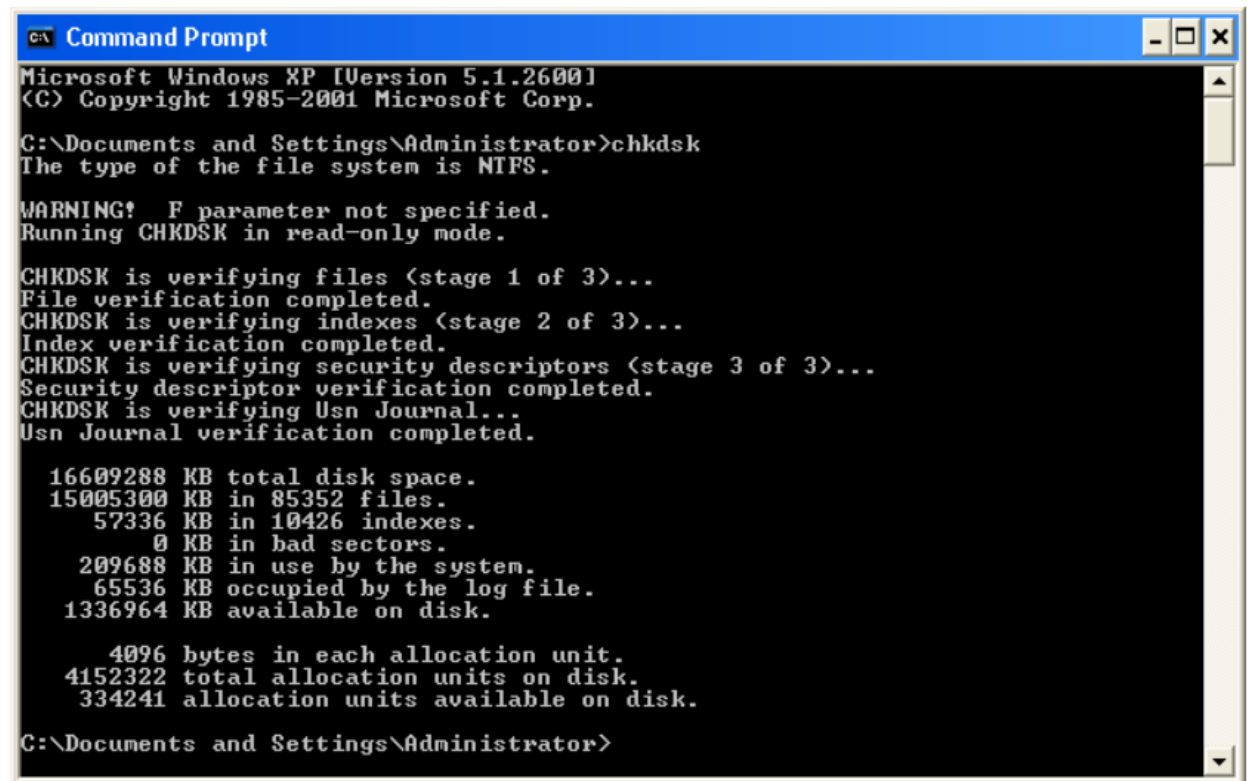
Format is used to erase information off of a computer diskette or fixed drive.



```
Administrator: C:\Windows\system32\cmd.exe - format g:/q
C:\>format g:/q
Insert new disk for drive G:
and press ENTER when ready...
The type of the file system is FAT32.
QuickFormatting 7435M
Initializing the File Allocation Table (FAT)...
Volume label <11 characters, ENTER for none>
```

### 3) CHKDSK

Chkdsk is a utility that checks the computer's hard drive status for any cross-linked or any additional errors with the hard drive.



```
Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>chkdsk
The type of the file system is NTFS.

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

CHKDSK is verifying files (stage 1 of 3)...
File verification completed.
CHKDSK is verifying indexes (stage 2 of 3)...
Index verification completed.
CHKDSK is verifying security descriptors (stage 3 of 3)...
Security descriptor verification completed.
CHKDSK is verifying Usn Journal...
Usn Journal verification completed.

16609288 KB total disk space.
15005300 KB in 85352 files.
 57336 KB in 10426 indexes.
   0 KB in bad sectors.
 209688 KB in use by the system.
 65536 KB occupied by the log file.
1336964 KB available on disk.

 4096 bytes in each allocation unit.
4152322 total allocation units on disk.
334241 allocation units available on disk.

C:\Documents and Settings\Administrator>
```

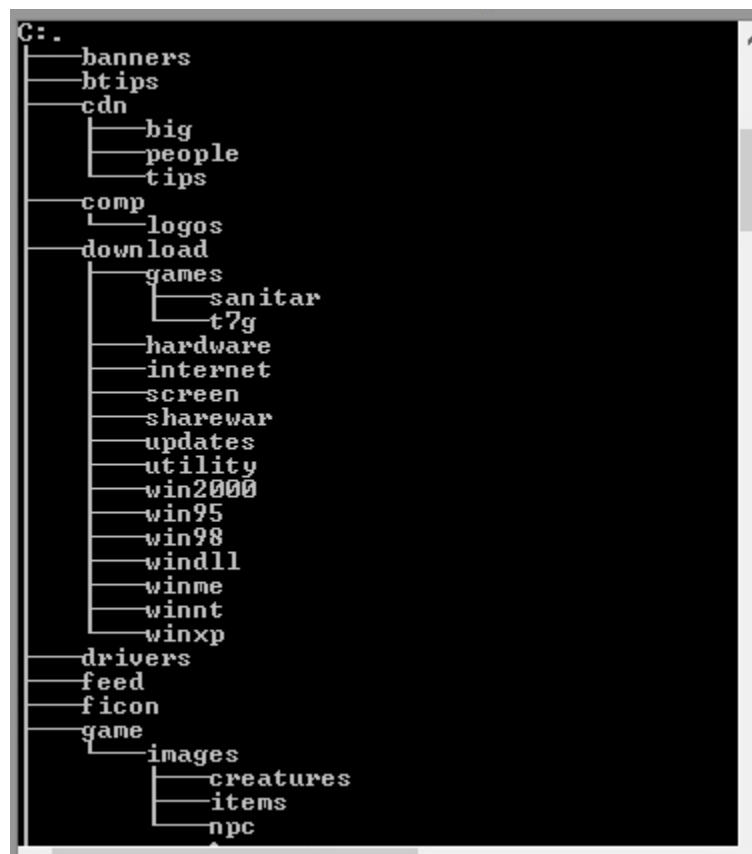
### 4) SCANDISK

Microsoft ScanDisk was first introduced with MS-DOS 6.2 and is a software utility capable of checking the hard drive and floppy diskette drive for any disk errors.

### 5) TREE

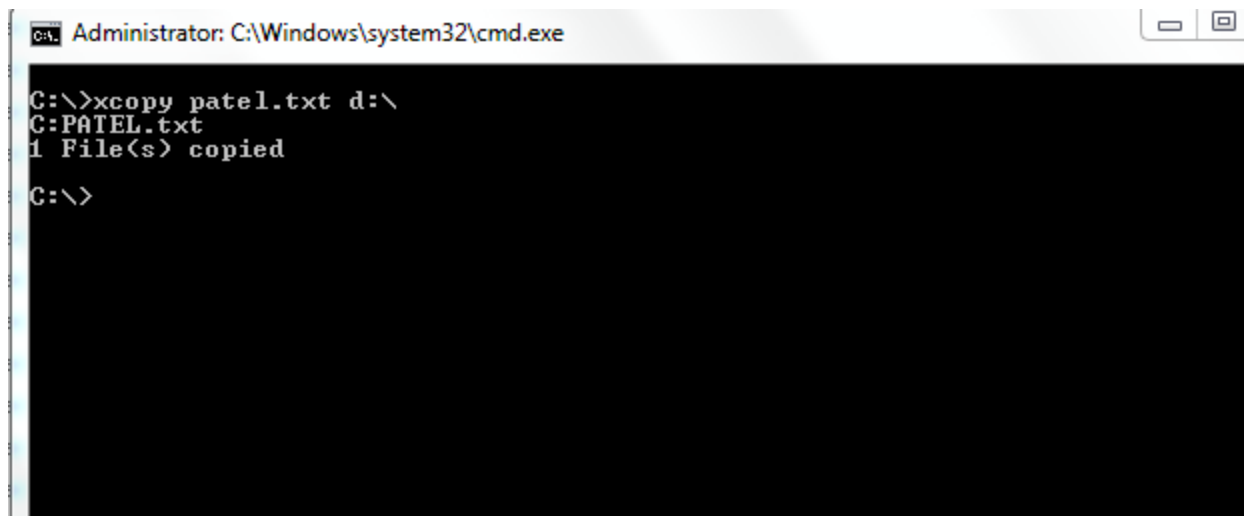
Allows the user to view a listing of files and folders in an easy to read listing.

Drive:\Path	Drive and directory containing disk for display of directory structure.
/F	Displays file names in each directory.
/A	ext characters used for linking lines, instead of graphic characters. /a is used with code pages that do not support graphic characters and to send output to printers that do not properly interpret graphic characters.



### 6) XCOPY

Xcopy is a powerful version of the copy command with additional features; has the capability of moving files, directories, and even whole drives from one location to another.

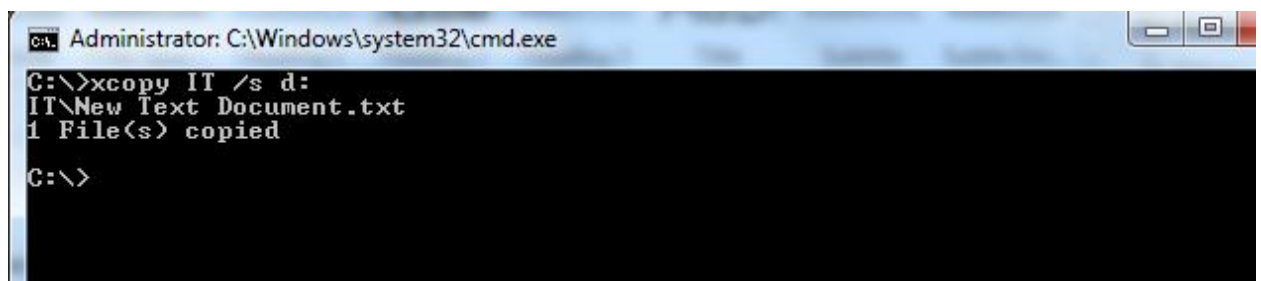


```
Administrator: C:\Windows\system32\cmd.exe

C:\>xcopy patel.txt d:\
C:\>PATEL.txt
1 File(s) copied

C:\>
```

Move one folder from one drive to another.



```
Administrator: C:\Windows\system32\cmd.exe

C:\>xcopy IT /s d:
IT\New Text Document.txt
1 File(s) copied

C:\>
```