



Execute Basic DOS Commands

Session: Manage Graphic Elements

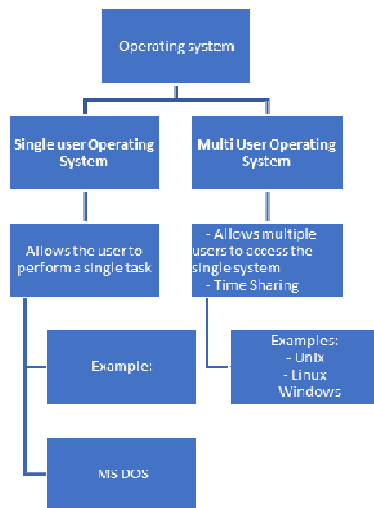
Operating System

An Operating System (OS) is system software that manages the

- User
- Computer hardware and
- Software.



Different Types of OS



MS DOS

Comment [SS11]: Should the boxes: Example and MS DOS have to be merged into a single box, like the box with Examples like Unix etc.

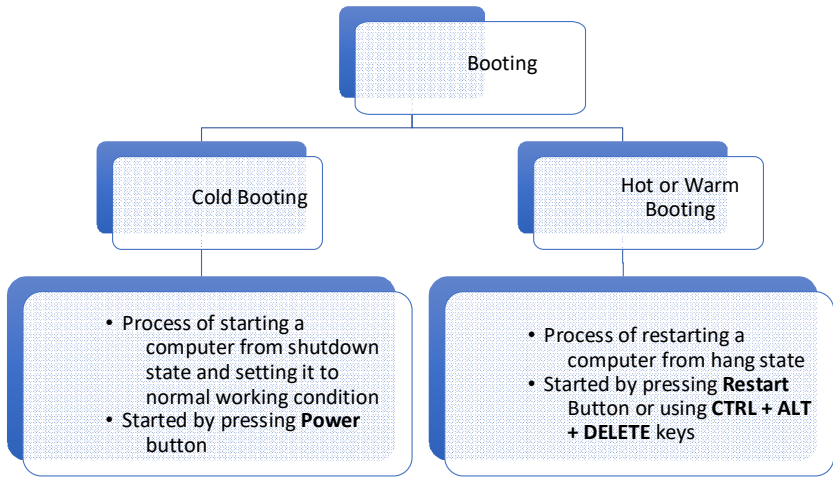


- Disk Operating System
- Single-user, Single-task Operating System
- Simple and easy to understand

Functions of MS DOS

- DOS translates the user command to the computer
- DOS commands and errors are easy to understand
- DOS manages disk files
- DOS allocates system resources
- DOS provides features to control hardware devices such as
 - Keyboard
 - Screen
 - Disk Devices
 - Printers and
 - Modems

Booting



Files in MS DOS

DOS allocates system resources

DOS provides features to control hardware devices such as

IO.SYS

Files carries out the system's basic I/O functions into memory

MSDOS.SYS

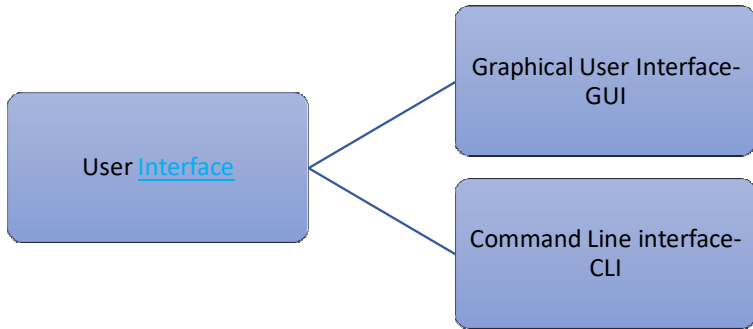
MS-DOS has default control program device drivers for various hardware

COMMAND.CO

Files that accepts commands from input device and execute the action

User Interface

Comment [SS12]: Why underline and different font colour?

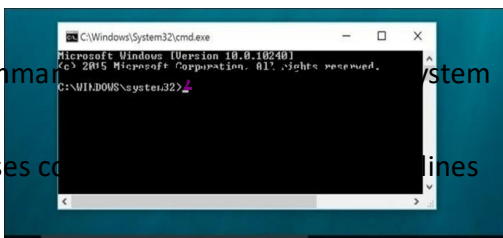


Command Line

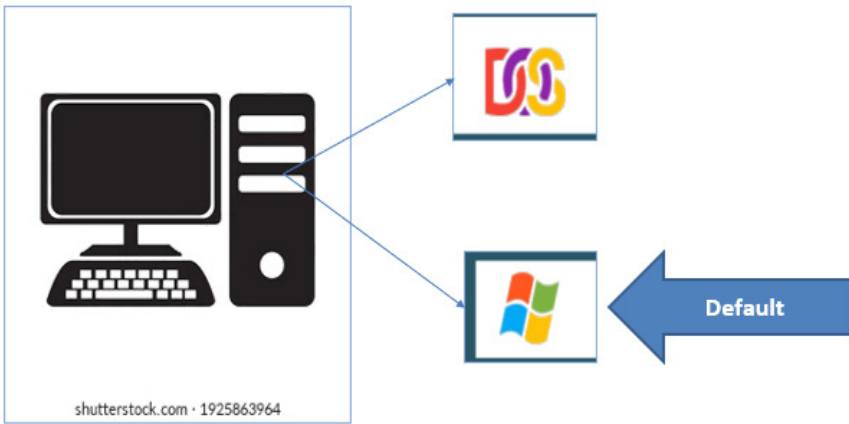
Interface

Is a command line system

Processes commands through lines

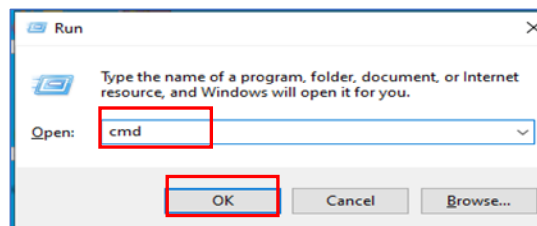
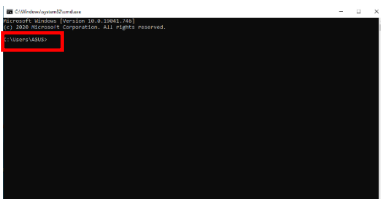
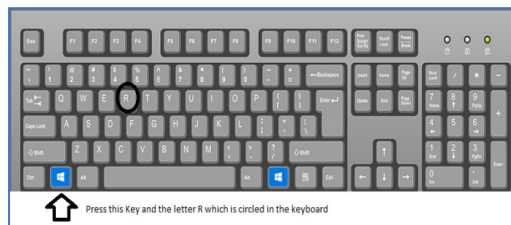


Switching to DOS command Prompt from Windows 10

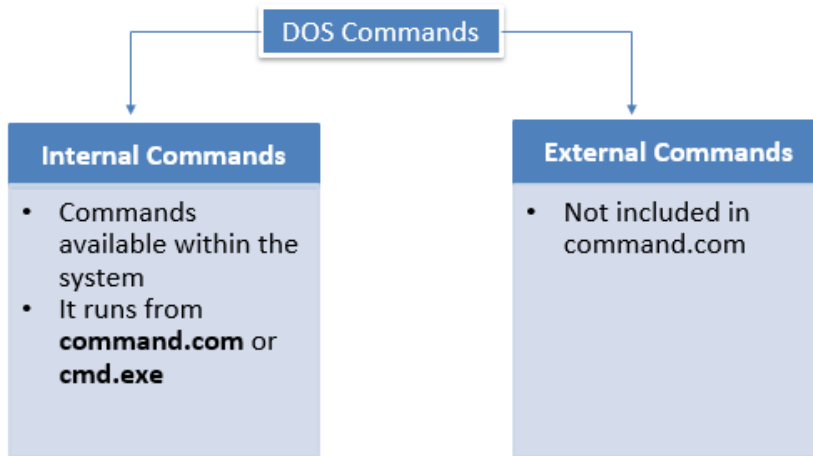


Steps to switch from Windows 10 to DOS command prompt

1. Type "Window key + R"
2. Type "Command " or "cmd"
3. Click OK
4. The command DOS prompt "C:\>" appears is displayed



DOS Commands



help

Syntax	help
Description	It displays all sort of commands existing in the system.
Example	C:\> help

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type

Syntax	type<filename.extension>
Description	It displays the content in the given file.
Example	C:\>type codegnan.txt

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Basic DOS Commands: Copy

Syntax	Copy file1 content to file 2
Description	It copies the content of file1 to file2, where file2 is dynamically created.
Example	C:\>copy sample1.txt sample2.txt

```
C:\Windows\system32\cmd.exe
C:\Users\ASUS>cd codegnan
C:\Users\ASUS\codegnan>dir *.*/*
Volume in drive C is OS
Volume Serial Number is 960F-84F9
Directory of C:\Users\ASUS\codegnan
[.]          [..]
1 File(s)    sample1.txt    45 bytes
2 Dir(s)    400,787,443,712 bytes free
C:\Users\ASUS\codegnan>
C:\Users\ASUS\codegnan>copy sample1.txt sample2.txt
1 file(s) copied.
C:\Users\ASUS\codegnan>dir
Volume in drive C is OS
Volume Serial Number is 960F-84F9
Directory of C:\Users\ASUS\codegnan
02-Feb-21  02:28 PM  <DIR>          .
02-Feb-21  02:28 PM  <DIR>          ..
02-Feb-21  02:22 PM                45 sample1.txt
02-Feb-21  02:22 PM                45 sample2.txt
2 File(s)    90 bytes
2 Dir(s)    400,786,599,936 bytes free
C:\Users\ASUS\codegnan>type sample1.txt
hello welcome to dos and linux basic tutorial
C:\Users\ASUS\codegnan>type sample2.txt
hello welcome to dos and linux basic tutorial
C:\Users\ASUS\codegnan>_
```

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type

Syntax	type<filename.extension>
Description	It displays the content in the given file.
Example	C:\>type codegnan.txt

```
C:\Windows\system32\cmd.exe
C:\Users\ASUS>cd codegnan
C:\Users\ASUS\codegnan>type sample.txt
hello welcome to dos and linux basic tutorial
C:\Users\ASUS\codegnan>
```

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date

Syntax	date
Description	It displays the current system date and allows the user to enter new date
Example	C:\>date

```
C:\Windows\system32\cmd.exe
C:\Users\ASUS>date
The current date is: 11-Feb-21
Enter the new date: (dd-mm-yy)
C:\Users\ASUS>
```

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Command/?

Syntax	<command name>/?
Description	It gives the information about the command.
Example	C:\> time/?

```

Command Prompt
C:\Users\hemalatha\Documents>time/?
Displays or sets the system time.

TIME [/T | time]

Type TIME with no parameters to display the current time setting and a prompt for a new one. Press ENTER to keep the same time.

If Command Extensions are enabled the TIME command supports the /T switch which tells the command to just output the current time, without prompting for a new time.

C:\Users\hemalatha\Documents>
    
```

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change drive

Syntax	<drive name>:
Description	It changes or moves to the another drive existing in the system.
Example	C:\>d: D:\>

```

C:\Windows\system32\cmd.exe
C:\Users\ASUS\codegnan>d: -- "here d is the letter which mentions or indicates drive name"

C:\Windows\system32\cmd.exe
C:\Users\ASUS\codegnan>d:
D:\> "this was the drive name ", what ever the commands executed earlier can also perform them here also
    
```

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Del

Syntax	del <filename>.<extension>
Description	It deletes the file of the specified extension
Example	C:\>del codegnan.txt

```
C:\Windows\system32\cmd.exe
C:\Users\ASUS\codegnan>del sample.txt

C:\Users\ASUS\codegnan>dir/p
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS\codegnan

10-Feb-21  02:08 PM    <DIR>          .
10-Feb-21  02:08 PM    <DIR>          ..
                0 File(s)          0 bytes
                2 Dir(s)    400,767,897,600 bytes free

C:\Users\ASUS\codegnan>
```

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Time

Syntax	time
Description	It displays the current system time and allows the user to enter new time
Example	C:\>time

```
C:\Windows\system32\cmd.exe
C:\Users\ASUS>time
The current time is: 14:33:57.16
Enter the new time:

C:\Users\ASUS>
```

cls

Syntax	cls
It clears the entire screen	It clears the entire screen
Example	C:\>cls

Before Clearing the contents on the screen

```
C:\Windows\system32\cmd.exe
C:\Users\ASUS\codegnan>ver
Microsoft Windows [Version 10.0.19041.746]
C:\Users\ASUS\codegnan>
```

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After Clearing the contents on the screen using "cls" command

```
C:\Windows\system32\cmd.exe
C:\Users\ASUS\codegnan>cls
C:\Users\ASUS\codegnan>
```

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External DOS Commands

Format

FIND

chkdsk

Sort

format

Syntax	Format<drive name>:
Description	It formats or erases the specified drive completely
Example	C:\>format d:

```
C:\Windows\system32\cmd.exe  
C:\Users\ASUS\codegnan>format d:
```

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Find

Syntax	FIND [/V][/C][/I][/N] string [d:][path]filename[. ..]
Description	Finds and reports the location of a specific string of text characters in one or more files.
Example	C:\>find /V "Save" newname3.txt

```

Command Prompt
C:\Users\ASUS\codegran>type newname3.txt
hello welcome to the editor using notepad
we are typing the contents in notepad which was opened from the command prompt
for saving the content select the "file" menu and select the option called "save", the file will be saved.
if the user wants to save with another file, select the "file" menu in that select "save as" option and type the file u
want to save, the file will be saved with that file mentioned.
C:\Users\ASUS\codegran>
C:\Users\ASUS\codegran>

```

```

C:\Users\ASUS\codegran>find /V "Save" newname3.txt
..... NEWNAME3.TXT
hello welcome to the editor using notepad
we are typing the contents in notepad which was opened from the command prompt
for saving the content select the "file" menu and select the option called "save", the file will be saved.
if the user wants to save with another file, select the "file" menu in that select "save as" option and type the file u
want to save, the file will be saved with that file mentioned.
C:\Users\ASUS\codegran>

```

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chkdsk

Syntax	chkdsk
Description	It analyses the disk and displays the disk memory status.
Example	chkdsk d:

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19041.746]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Windows\system32>chkdsk d:
The type of the file system is NTFS.
Volume label is New Volume.

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

Stage 1: Examining basic file system structure ...
 256 file records processed.
File verification completed.
  Phase duration (File record verification): 52.53 milliseconds.
  0 large file records processed.
  Phase duration (Orphan file record recovery): 0.94 milliseconds.
  0 bad file records processed.
  Phase duration (Bad file record checking): 0.54 milliseconds.

Stage 2: Examining file name linkage ...
 29 reparse records processed.
 294 index entries processed.
Index verification completed.
  Phase duration (Index verification): 114.99 milliseconds.
  0 unindexed files scanned.
  Phase duration (Orphan reconnection): 2.65 milliseconds.
  0 unindexed files recovered to lost and found.
  Phase duration (Orphan recovery to lost and found): 2.24 milliseconds.
 29 reparse records processed.
  Phase duration (Reparse point and Object ID verification): 5.88 milliseconds.
```

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sort

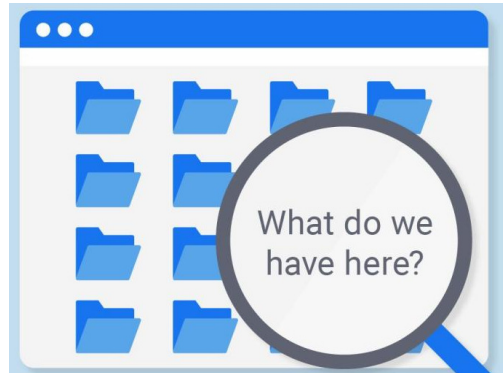
Syntax	SORT [/R][/+n] < (filename) ...
Description	Sorts the contents in mentioned order
Example	C:\>sort /R newname3.txt

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View Directory Structure



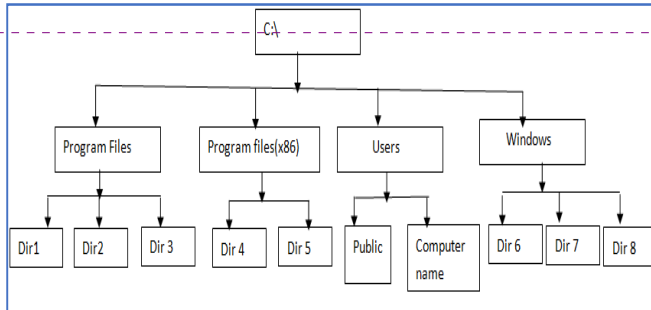
- Directory is a kind of unit, which contains different types of stored files and folders.
- User access the files and directories.

Files in a Directory

S.No	File Type	Description
1	*.bmp	Bit map image
2.	*.pdf	Picture document format
3	*.doc	Document file
4	*.exe	Executable file
5	*.xls	Excel sheet
6	*.ppt	Power point presentation
7	*.txt	Text file
8	*.rtf	Rich text format
9	*.dll	Dynamic link library

Directory Structure

A directory structure is the way to display an operating system's files.



Comment [SS13]: Graphic: Would you like to correct the inclination?

In DOS, the directory structure is hierarchical and can be viewed from the C:\> prompt

Contents of a Directory

Contents of a Directory

Root Directory

"tree" - Command is used to view the structure of the directory

Parent Directory

Sub Directory

```

C:\Windows\system32\cmd.exe
C:\Users\ASUS>tree
Folder PATH listing for volume OS
Volume serial number is 960F-84F9
C:.
|-- 3D Objects
|-- codegna
|-- Contact
|-- Desktop
|-- Document
|-- Zoom
|-- Download
|-- Favorite
|-- ASUS E-Service
|-- Link
|-- Music
|-- OneDrive
|-- Document
|-- Picture
|-- Screenshot
|-- Picture
|-- Camera Roll
|-- Saved Picture
|-- Saved Game
|-- Search
|-- Video
|-- Capture
C:\Users\ASUS>
  
```

Contents of a Directory

Callout boxes and their corresponding parts of the screenshot:

- Disk's volume label and serial number:** Points to "Volume in drive C is OS" and "Volume Serial Number is 960F-84F9".
- Filename per line with filename extension:** Points to "Directory of C:\Users\ASUS".
- File size in bytes:** Points to the "0 bytes" column in the file listing.
- Date and time the file was last modified:** Points to the date and time columns in the file listing.
- Total number of files listed and their cumulative size:** Points to "0 File(s)" and "0 bytes".
- Free space (in bytes) remaining on the disk:** Points to "15 Dir(s) 402,370,392,064 bytes free".

List Directory Contents

dir → Lists the files in the directory

***** → Wildcard is used to search or find the file(s) or folder(s) in a directory

Comment [SSI4]: Not able correct in the text box. Please change: Wildcard is used to search or find the file(s) or folders in a directory TO Wildcard is used to search or find file(s) or folders in a directory.

Syntax	C:\>dir <filenamestartingletters>*. *
Example	C:\>dir <u>samp</u> l *.*



```
C:\Users\ASUS\codegnan>dir sampl *.*
Volume in drive C: is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS\codegnan

10-Feb-21 02:22 PM          45 sample1.txt
10-Feb-21 02:22 PM          45 sample2.txt
11-Feb-21 04:33 PM          23 sample3.txt
11-Feb-21 07:52 PM          51 sample4.txt
0 File(s)                  164 bytes
0 Dir(s) 405,546,971,136 bytes free

C:\Users\ASUS\codegnan>
```

dir" command can be given as:

- C:\> dir
- C:\> dir *.* /p
- C:\> dir *.* /w
- C:\> dir /s
- C:\> dir ><filename.exte

dir

Syntax	dir
Description	Lists all the files in current directory
Example	C:\> dir

```

C:\Windows\system32\cmd.exe
C:\Users\ASUS>dir
Volume Serial Number is 960F-84F9
Directory of C:\Users\ASUS
07-Feb-21 05:04 PM <DIR> .
07-Feb-21 05:04 PM <DIR> ..
12-Oct-20 05:55 AM <DIR> 3D Objects
12-Oct-20 05:55 AM <DIR> Contacts
07-Feb-21 06:46 PM <DIR> Desktop
09-Feb-21 08:53 PM <DIR> Documents
09-Feb-21 06:10 PM <DIR> Downloads
12-Oct-20 05:55 AM <DIR> Favorites
12-Oct-20 05:55 AM <DIR> Links
12-Oct-20 05:55 AM <DIR> Music
09-Feb-21 11:04 AM <DIR> OneDrive
23-Jan-21 02:50 PM <DIR> Pictures
12-Oct-20 05:55 AM <DIR> Saved Games
12-Oct-20 05:57 AM <DIR> Searches
07-Feb-21 01:24 PM <DIR> Videos
0 File(s) 0 bytes
15 Dir(s) 402,370,392,064 bytes free
C:\Users\ASUS>

```

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dir /p

Syntax	dir/p
Description	Lists all the files in current directory Page wise
Example	C:\> dir *.* /p

```

C:\Windows\system32\cmd.exe
C:\Users\ASUS>dir *.* /p
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS

37-Feb-21 05:04 PM <DIR> .
37-Feb-21 05:04 PM <DIR> ..
12-Oct-20 05:55 AM <DIR> 3D Objects
12-Oct-20 05:55 AM <DIR> Contacts
37-Feb-21 06:46 PM <DIR> Desktop
37-Feb-21 06:46 PM <DIR> Documents
39-Feb-21 06:10 PM <DIR> Downloads
12-Oct-20 05:55 AM <DIR> Favorites
12-Oct-20 05:55 AM <DIR> Links
12-Oct-20 05:55 AM <DIR> Music
39-Feb-21 11:04 AM <DIR> OneDrive
23-Jan-21 02:50 PM <DIR> Pictures
12-Oct-20 05:55 AM <DIR> Saved Games
12-Oct-20 05:57 AM <DIR> Searches
37-Feb-21 01:24 PM <DIR> Videos
0 File(s)
0 bytes
15 Dir(s) 402,370,428,928 bytes free
  
```

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dir /w

Syntax	dir/w
Description	Lists all the files in current directory width wise
Example	C:\> dir *.* /w

```

C:\Windows\system32\cmd.exe
C:\Users\ASUS>dir *.* /w
Volume in drive C is OS
Volume Serial Number is 908F-84F9

Directory of C:\Users\ASUS

.           [..]          [30 Objects] [codegnan] [Contacts] [Desktop] [Documents] [Downloads]
Favorites  [Links]       [Music]      [OneDrive] [Pictures] [print.txt] [Saved Games] [Searches]
Ideos]

1 File(s)   998 bytes
16 Dir(s)  488,239,472,640 bytes free

C:\Users\ASUS>
    
```

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dir /s

Syntax	dir/s
Description	Displays all the files in all the subfolders and main folder.
Example	

```

C:\WINDOWS\system32\cmd.exe
C:\Users\hemalatha\Pictures>dir/s
Volume in drive C is Windows
Volume Serial Number is 08A5-0187

Directory of C:\Users\hemalatha\Pictures

08-03-2021  14:32  <DIR>          .
08-03-2021  14:32  <DIR>          ..
13-11-2020  16:25                47,993 A.png
25-02-2019  18:00  <DIR>          Camera Roll
24-11-2020  18:10  <DIR>          Saved Pictures
                1 File(s)      47,993 bytes

Directory of C:\Users\hemalatha\Pictures\Camera Roll

25-02-2019  18:00  <DIR>          .
25-02-2019  18:00  <DIR>          ..
                0 File(s)      0 bytes

Directory of C:\Users\hemalatha\Pictures\Saved Pictures

24-11-2020  18:10  <DIR>          .
24-11-2020  18:10  <DIR>          ..
22-04-2020  14:56                64,900 axis logo.html
22-04-2020  14:57                64,703 axis.html
31-10-2019  16:45                175,792 bpm package.jpg
04-09-2020  14:57                14,478 Candidate Id.PNG
05-11-2020  15:55                26,288 how-to-search-for-words-in-a-word-document3.png
24-11-2020  14:33                1,011,618 Kartik Pic.png
    
```

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dir <*.extension>

Syntax	dir<*. extension>	File
Description	Displays the list of files with that extension.	
Example	C:\>dir *.extension C:\>dir *.txt	

```
C:\Windows\system32\cmd.exe
C:\Users\ASUS>dir *.txt
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS

10-Feb-21 03:28 PM          998 print.txt
                1 File(s)          998 bytes
                0 Dir(s)  405,567,361,024 bytes free

C:\Users\ASUS>dir print.txt
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS

10-Feb-21 03:28 PM          998 print.txt
                1 File(s)          998 bytes
                0 Dir(s)  405,567,361,024 bytes free

C:\Users\ASUS>
```

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Mkdir

Comment [SSI5]: Used for what purpose?

mkdir

cd

cp (within the directory)

cp (one directory to another)

rm

Four horizontal lines for notes.

mkdir

Syntax	mkdir<directory name>
Description	Create an empty directory of the <u>—a</u> folder where files can be stored.
Example	C:\>mkdir codegnan

C:\Windows\system32\cmd.exe

C:\Users\ASUS>mkdir codegnan

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Four horizontal lines for notes.

Cd

Syntax	cd<directory name>
Description	Change it to the required directory where files will be stored
Example	C:\>cd codegnan

```
C:\Users\ASUS>cd codegnan
C:\Users\ASUS\codegnan>
```

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cp (within the directory)

cp (within the directory)

```
C:\Users\ASUS\codegnan>d:
```

```
D:\>cd dos_linux_ppt
```

```
D:\dos_linux_ppt>dir
Volume in drive D is New Volume
Volume Serial Number is DA1B-42AF

Directory of D:\dos_linux_ppt
12-Feb-21 11:50 AM <DIR>          .
12-Feb-21 11:50 AM <DIR>          ..
09-Feb-21 04:16 PM          29,797 cmd1.jpg
09-Feb-21 04:17 PM          40,007 cmd2.jpg
11-Feb-21 10:03 PM              500 codegnan1.txt
11-Feb-21 11:47 PM       1,688,132 cmdlineinterface.pptx
09-Feb-21 10:27 PM          14,817 Contents.docx
09-Feb-21 09:22 PM       110,527 dos_cmd1.jpg
09-Feb-21 09:27 PM       134,887 dos_cmd2.jpg
12-Feb-21 09:03 AM          3,478 more.txt
10-Feb-21 05:41 PM          15,150 sinham sir .usx
          9 File(s)      2,036,495 bytes
          2 Dir(s)    519,209,574,400 bytes free

D:\dos_linux_ppt>
```

Manage Directories using DOS **commands**

1. List out the files , using dir command.
2. Apply copy command to copy the file three.txt to C:\Users\hemalatha
Syntax : C:\> copy filename.txt c:\<foldername>
3. List out the files using dir command.

```
C:\Users\hemalatha\Documents>dir *.txt
Volume in drive C is Windows
Volume Serial Number is 08A5-0187

Directory of C:\Users\hemalatha\Documents

21-04-2021  18:29                63 four.txt
21-04-2021  18:29                63 one.txt
21-04-2021  18:02                10 three.txt
21-04-2021  18:02                10 two.txt
               4 File(s)              146 bytes
               0 Dir(s) 142,954,491,904 bytes free
```

Comment [SSI6]: Not able correct within the box. Remove space between 'files' and comma used.

```
C:\Users\hemalatha>dir *.txt
Volume in drive C is Windows
Volume Serial Number is 08A5-0187

Directory of C:\Users\hemalatha

21-04-2021  18:29                63 four.txt
21-04-2021  18:02                10 three.txt
               2 File(s)              73 bytes
               0 Dir(s) 142,951,960,576 bytes free
```

```
C:\Users\hemalatha\Documents>type three.txt
Hello hema
C:\Users\hemalatha\Documents>copy three.txt C:\Users\hemalatha
1 file(s) copied.
```

Rm- Remove the directory

Syntax	rd<directory name>
Description	It removes the directory name
Example	C:\>rd codegnan

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

C:\Users\ASUS>rd codegnan
The directory is not empty.

C:\Users\ASUS> As the directory was not empty, it won't able to remove the directory.
```

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Formatted: Indent: Left 0 ch

Note: To remove a directory, the directory has to be empty.

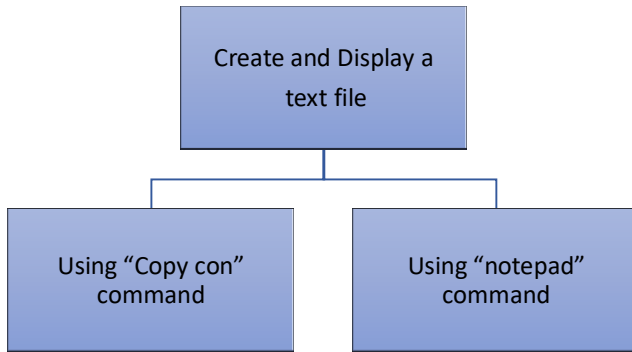
Text file

A text file is a computer file which contains only text with no special formatting properties like bold, italic, underline, images.

This file can be identified with the use extension, .txt

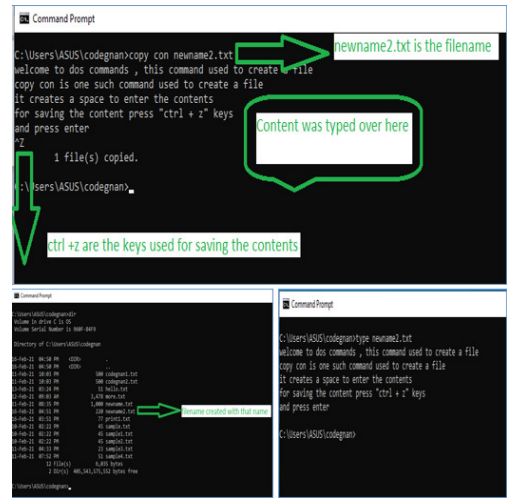


Create and Display the content of a new text file



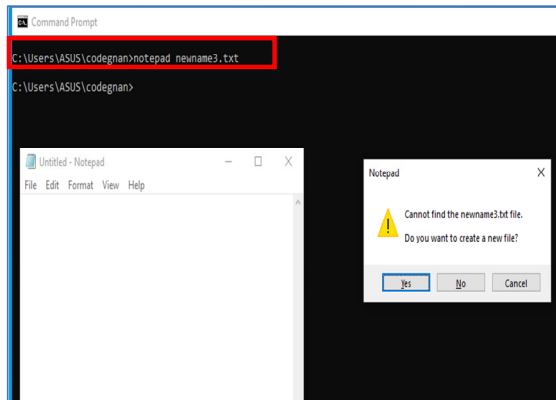
Using "Copy con " command

1. Type **"copy con"** filename.txt
2. Enter the content in the space > Press **"ctrl + z"**
3. Type **"dir"** to check whether the file has been created or not.
4. Use **"type"** command to view the content

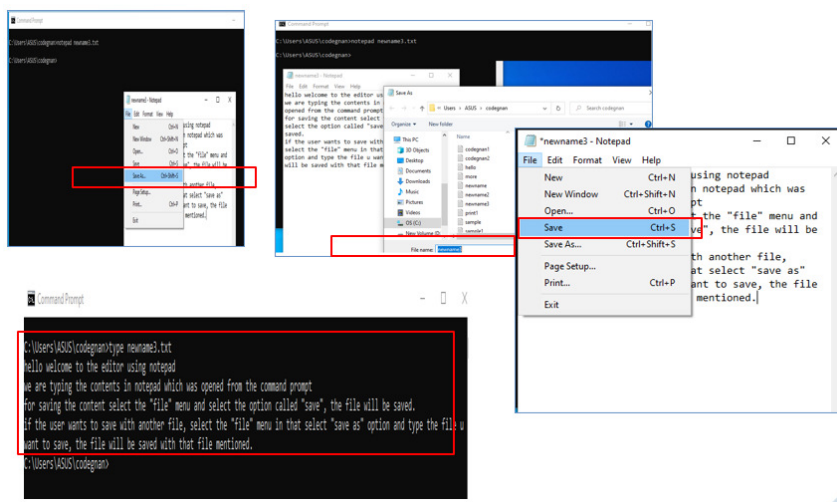


Create a new text file₂ using “notepad” command

1. Create a file using
C:\>notepad newname3.txt
2. Go to **file** menu >select
“**save**”, the file will be saved
(newname3.txt)
3. Enter the content in notepad
4. Go to **file** menu>“**save as**”
the file will be saved with
another filename
(newname4.txt)
5. Use “**type**” command to
view the content



Create a new text file using₂ “notepad” command



DOS Commands

fsutil

dir /T:C

attrib +s +h

attrib -s -h

dir /A:H /B

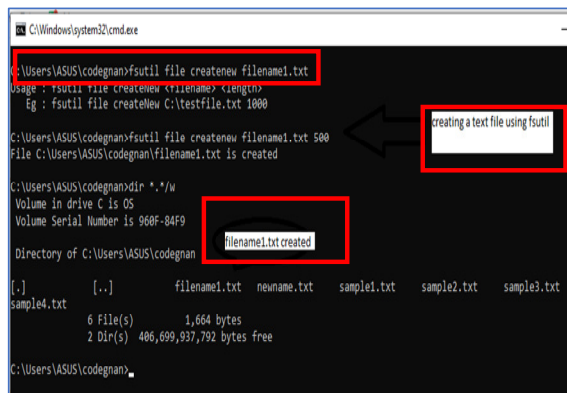
rename

type/ more

Fsutil

Syntax : C:\> fsutil file
createnew
<filename.extension><size in
bytes>

Example : C:\> fsutil file
createnew <filename1.txt> 1000



dir /T:C

Syntax :

dir /T:C: <filename.extension>

Example:

C:\>dir /T:C filename1.txt

```
C:\Windows\system32\cmd.exe
C:\Users\ASUS\codegnan>dir /T:C filename1.txt
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS\codegnan

11-Feb-21 10:03 PM          500 filename1.txt
                1 File(s)          500 bytes
                0 Dir(s) 406,596,751,360 bytes free

C:\Users\ASUS\codegnan>
```

attrib +s +h

Syntax :

C:\>attrib +s +h
<filename.extension>

Example:

C:\>attrib +s +h filename1.txt

```
C:\Windows\system32\cmd.exe
Directory of C:\Users\ASUS\codegnan
11-Feb-21 10:03 PM          500 filename1.txt
                1 File(s)          500 bytes
                0 Dir(s) 406,596,751,360 bytes free

C:\Users\ASUS\codegnan>dir *.*/*
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS\codegnan
[.]          [..]          filename1.txt  newname.txt  sample1.txt  sample2.txt  sample3.txt
sample1.txt  6 File(s)          1,664 bytes
                0 Dir(s) 406,744,162,304 bytes free

C:\Users\ASUS\codegnan>attrib +s +h filename1.txt

C:\Users\ASUS\codegnan>dir *.*/*
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS\codegnan
[.]          [..]          newname.txt  sample1.txt  sample2.txt  sample3.txt  sample4.txt
5 File(s)          1,164 bytes
2 Dir(s) 406,744,162,304 bytes free

after applying the hide command,
the filename1.txt not seen
```

attrib -s -h

Syntax :

C:\> attrib -s -h <filename.extension>

Example:

C:\> attrib -s -h filename1.txt

```

C:\Windows\system32\cmd.exe
C:\Users\ASUS\codegnan>dir *.* /p
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS\codegnan
11-Feb-21 10:03 PM <DIR> .
11-Feb-21 10:03 PM <DIR> ..
11-Feb-21 08:35 PM      1,000 newname.txt
10-Feb-21 02:22 PM      45 sample1.txt
10-Feb-21 02:22 PM      45 sample2.txt
11-Feb-21 04:33 PM      23 sample3.txt
11-Feb-21 07:52 PM      51 sample4.txt
               5 File(s)      1,164 bytes
               2 Dir(s)  406,596,415,488 bytes free

C:\Users\ASUS\codegnan>attrib -s -h filename1.txt

C:\Users\ASUS\codegnan>dir *.* /p
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS\codegnan
11-Feb-21 10:03 PM <DIR> .
11-Feb-21 10:03 PM <DIR> ..
11-Feb-21 08:35 PM      500 filename1.txt
11-Feb-21 08:35 PM      1,000 newname.txt
10-Feb-21 02:22 PM      45 sample1.txt
10-Feb-21 02:22 PM      45 sample2.txt
11-Feb-21 04:33 PM      23 sample3.txt
11-Feb-21 07:52 PM      51 sample4.txt
               6 File(s)      1,664 bytes
               2 Dir(s)  406,597,640,192 bytes free
C:\Users\ASUS\codegnan>

```

before un hiding the files , viewing the files in the directory

after applying un hiding

filename1.txt seen in the folder

dir /A:H /B

Syntax :

dir /A:H /B where /A:H represents archive the hidden file and /B represents any type of format.

Example:

C:\> dir /A:H /B

```

C:\Windows\system32\cmd.exe
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS\codegnan

[.]      [..]      newname.txt  sample1.txt  sample2.txt  sample3.txt  sample4.txt
5 File(s)      1,164 bytes
2 Dir(s)  406,596,296,704 bytes free

C:\Users\ASUS\codegnan>dir /A:H /B
filename1.txt

```

hidden file was not seen when i apply simple dir command

hidden file was shown

Comment [SSI7]: Please check if this statement: 'represents archive the hidden file' SHOULD READ AS 'represents archive of the hidden file'

rename

Syntax :

rename
<filename1.extension><filename
2.extension>

Example:

C:\> rename filename1.txt
filename2.txt

```
C:\Windows\system32\cmd.exe
C:\Users\ASUS\codegnan>rename filename1.txt codegnan.txt
C:\Users\ASUS\codegnan>dir
Volume in drive C is OS
Volume Serial Number is 960F-84F9
Directory of C:\Users\ASUS\codegnan
11-Feb-21 11:41 PM <DIR> .
11-Feb-21 11:41 PM <DIR> ..
11-Feb-21 10:03 PM 500 codegnan.txt
11-Feb-21 08:35 PM 1,000 newname.txt
10-Feb-21 02:22 PM 45 sample1.txt
10-Feb-21 02:22 PM 45 sample2.txt
11-Feb-21 04:33 PM 23 sample3.txt
11-Feb-21 07:52 PM 51 sample4.txt
11-Feb-21 6 File(s) 1,064 bytes
2 Dir(s) 406,727,451,616 bytes free
C:\Users\ASUS\codegnan>rename codegnan.txt codegnan1.txt
C:\Users\ASUS\codegnan>dir
Volume in drive C is OS
Volume Serial Number is 960F-84F9
Directory of C:\Users\ASUS\codegnan
11-Feb-21 11:42 PM <DIR> .
11-Feb-21 11:42 PM <DIR> ..
11-Feb-21 10:03 PM 500 codegnan1.txt
11-Feb-21 08:35 PM 1,000 newname.txt
10-Feb-21 02:22 PM 45 sample1.txt
10-Feb-21 02:22 PM 45 sample2.txt
11-Feb-21 04:33 PM 23 sample3.txt
```

type/more

Two methods:

- (i) Using **type** command-
- (ii) Using **more** command separated by a | (**pipe**) symbols

Syntax

C:\><commandname>|<commandname>where | (pipe) is a separator command

Example :

C:\>type filename1.txt | more

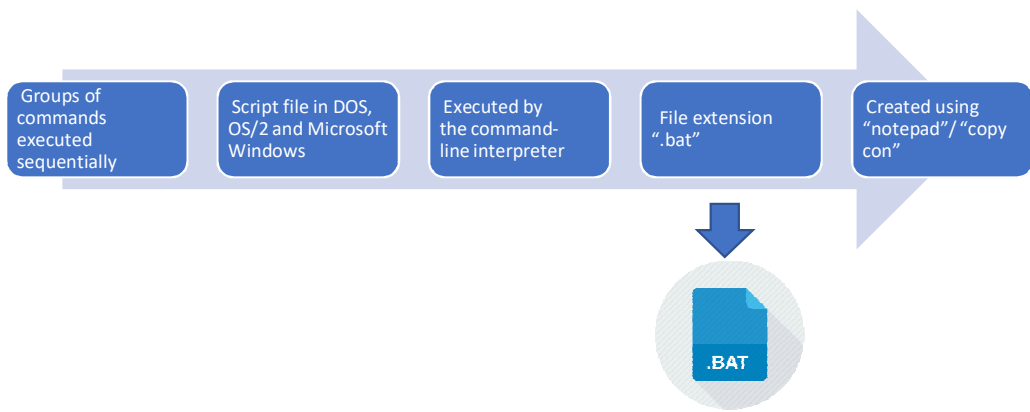
Activity

Match the function with the respective Command in the space provided in your learner guides.

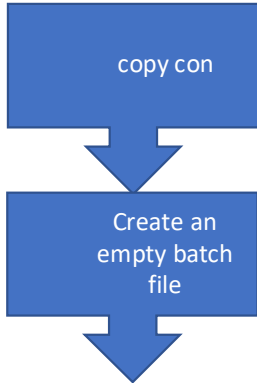
Functions	DOS commands
Create a new file	fsutil
View the time and date	dir /T:C
Hide files	attrib +s +h
Unhide files	attrib -s -h
View hidden files	dir /A:H /B
Rename a file	rename
Read the file content	type/ more

Batch File

Batch File

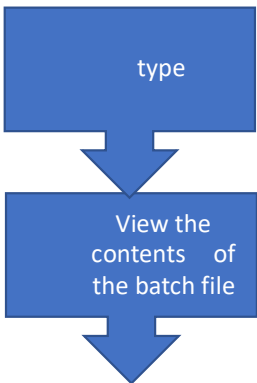


Manage Batch Files



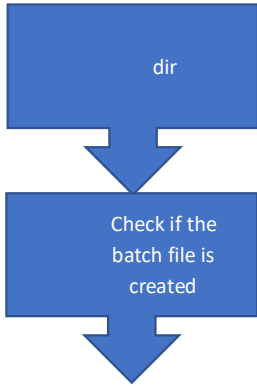
```
Command Prompt
C:\Users\ASUS\codegnan>copy con simplebatch.bat
dir *.*
dir *.* /p
dir *.* /w
find /I /N "save" newname3.txt
^Z
1 file(s) copied.
```

Manage Batch Files



```
Command Prompt
C:\Users\ASUS\codegnan>type simplebatch.bat
dir *.*
dir *.* /p
dir *.* /w
find /I /N "save" newname3.txt
C:\Users\ASUS\codegnan>
```

Manage Batch Files



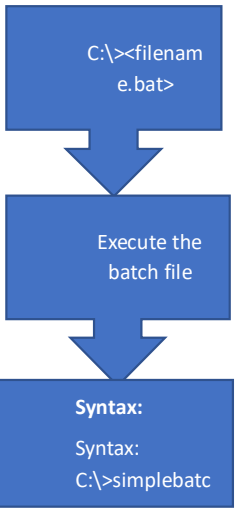
```

cmd Command Prompt
C:\Users\ASUS\codegnan>dir
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS\codegnan

16-Feb-21 07:09 PM <DIR> .
16-Feb-21 07:09 PM <DIR> ..
11-Feb-21 10:03 PM 500 codegnan1.txt
11-Feb-21 10:03 PM 500 codegnan2.txt
13-Feb-21 03:24 PM 51 hello.txt
12-Feb-21 09:03 AM 3,478 more.txt
11-Feb-21 08:35 PM 1,000 newname.txt
16-Feb-21 04:51 PM 220 newname2.txt
16-Feb-21 05:14 PM 413 newname3.txt
16-Feb-21 06:04 PM 415 newname5.txt
16-Feb-21 03:51 PM 77 print1.txt
10-Feb-21 02:22 PM 45 sample.txt
10-Feb-21 02:22 PM 45 sample1.txt
10-Feb-21 02:22 PM 45 sample2.txt
11-Feb-21 04:33 PM 23 sample3.txt
11-Feb-21 07:52 PM 51 sample4.txt
16-Feb-21 07:11 PM 63 simplebatch.bat
16 File(s) 7,339 bytes
2 Dir(s) 405,516,065,152 bytes free
file created
C:\Users\ASUS\codegnan>
  
```

Execute Batch Files



```

cmd C:\Windows\system32\cmd.exe
C:\Users\ASUS\codegnan>simplebatch.bat
C:\Users\ASUS\codegnan>dir *.*
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS\codegnan

16-Feb-21 07:09 PM <DIR> .
16-Feb-21 07:09 PM <DIR> ..
11-Feb-21 10:03 PM 500 codegnan1.txt
11-Feb-21 10:03 PM 500 codegnan2.txt
13-Feb-21 03:24 PM 51 hello.txt
12-Feb-21 09:03 AM 3,478 more.txt
11-Feb-21 08:35 PM 1,000 newname.txt
16-Feb-21 04:51 PM 220 newname2.txt
16-Feb-21 05:14 PM 413 newname3.txt
16-Feb-21 06:04 PM 415 newname5.txt
16-Feb-21 03:51 PM 77 print1.txt
10-Feb-21 02:22 PM 45 sample.txt
10-Feb-21 02:22 PM 45 sample1.txt
10-Feb-21 02:22 PM 45 sample2.txt
11-Feb-21 04:33 PM 23 sample3.txt
11-Feb-21 07:52 PM 51 sample4.txt
16-Feb-21 07:11 PM 63 simplebatch.bat
16 File(s) 7,339 bytes
2 Dir(s) 405,525,397,504 bytes free

C:\Users\ASUS\codegnan>dir *.* /p
Volume in drive C is OS
Volume Serial Number is 960F-84F9

Directory of C:\Users\ASUS\codegnan

16-Feb-21 07:09 PM <DIR> .
16-Feb-21 07:09 PM <DIR> ..
11-Feb-21 10:03 PM 500 codegnan1.txt
11-Feb-21 10:03 PM 500 codegnan2.txt
13-Feb-21 03:24 PM 51 hello.txt
12-Feb-21 09:03 AM 3,478 more.txt
11-Feb-21 08:35 PM 1,000 newname.txt
16-Feb-21 04:51 PM 220 newname2.txt
  
```

In this topic, you have learnt:

- 1. An Operating system is a system software that interacts with User, Software and Computer hardware
- 2. MS-DOS is a disk-based, single-user, single-task operating system.
- 3. The MS-DOS consists of *IO.SYS*, *MSDOS.SYS*, and *COMMAND.COM* files.
- 4. Command Line Interface is a command prompt in an Operating System. It processes commands to a computer program in the form of lines of text. IT accepts text input to execute an operating system functions.
- 5. A directory structure is the way to display an operating system's files.
- 6. A text file is a computer file which contains text and doesn't have any special formatting properties like bold, italic, underline, images.
- 7. A batch file is a script file consist of series of commands to be executed by the Command Line interpreter.
