

MS-DOS Operating System

MS-DOS(Microsoft-Disk Operating system)

It is an operating system that consists of some integration programs that work together to manage all the computer units produced by IBM. System programs are saved on a floppy disk or hard disk.

The earlier version of this system was in 1981 which was one of the first operating system used to deal with computer.

The file name in DOS:

The file name in DOS is divided into two parts :

- 1- The Root: this part of the name must not exceed 8 characters and this part is necessary (must not be neglected)
- 2- The extension: this part must not exceed 3 characters .this part is not necessary (can be neglected).the two parts are separated by (.)

here some of the Known instructions with file name:

BATCH.BAT	a file with instructions executed together
COMMAND.COM	file created with DOS
EXECUTABLE.EXE	file ready to execute
DOCUMENT.DOC	text or document file
TEXT.TXT	text file
ASSEMBLY.ASM	file written in Assembly
BACKUP.BAK	backup file
BASIC.BAS	file written in Basic
DBASE FILE.DBF	database file
PASCAL.PAS	file written in Pascal
SYSTEM.SYS	system file
C.C	file written in C

MS-DOS function

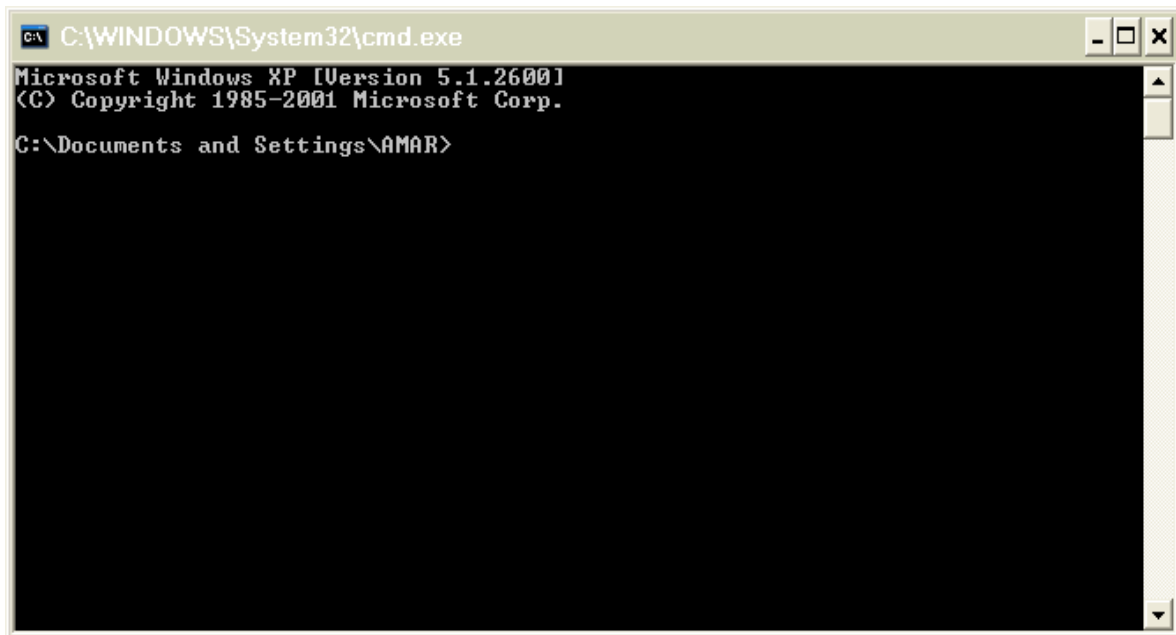
- 1- Transform and move data and instructions between memory storage devices.
- 2- Start the computer operation and do some tests to insure that the electric connection is safety.
- 3- Accept the operating instructions that received from the keyboard that help in controlling all computer parts .
- 4- Allow to make additional copies of files form one disk to other.
- 5- Send instructions and data to the printing unit.

There is some point must known before use the DOS screen like:

- 1- press (ctrl+C) before giving any instruction .
- 2- use the sample (/) with the different instruction for example:
Dir/p
- 3- The other sample (\) is used with different paths of folders or files.
- 4- To move from one part to the other in hard disk print the part name and the sample (:) For Example
(C:) to move to the C part in hard
(D:) to move to the D part in hard
(E:) to move to the E part in hard

How to reach to DOS:

- 1- Start → run → cmd or command → OK.
- 2- Start → All programmes → Accessories → command prompt.



To exit the DOS window ;

- 1- print exit and press enter.
- 2- Close the DOS window directly.

DOS Instructions:

- 1- **CD** Instruction: used for moving between folders ,for example

cd..	to move from used folder to one back folder.
cd\	to move directly to C part.
Cd filename	to move from used folder to another in it , thus filename is the name of the folder wanted to move to or the completed path of it



```
C:\WINDOWS\System32\cmd.exe
C:\WINDOWS\Web>cd ..
C:\WINDOWS>cd web
C:\WINDOWS\Web>cd \
C:\>
```

2-Dir Instruction: used to display the content of a folders, and used in different ways:

- | | |
|--------|--|
| Dir/p | display files page by page. |
| Dir/w | display files content horizontally. |
| Dir/o | display files content alphabetically. |
| Dir/a | display all the files content with the hidden files. |
| Dir/os | display files according to their size from larger to smaller |
| Dir/s | display all the contents of files or index. |
| Dir/AH | display hidden files only. |
| Dir/AS | display system files only. |
| Dir/AD | display all indexes without files. |
| Dir/AA | display archive files. |

```

C:\WINDOWS\System32\cmd.exe
C:\>dir/w
Volume in drive C has no label.
Volume Serial Number is 907A-355E

Directory of C:\

[apache]                AUTOEXEC.BAT            [books]
[compaq]                CONFIG.SYS              [Documents and Settings]
[Download]              java9.txt               [My Music]
my_cnf.bak              PDOXUSRS.NET           [Poetry Encyclopedia]
[Program Files]        [WINDOWS]
                    5 File(s)              23,963 bytes
                    9 Dir(s)             6,344,884,224 bytes free

C:\>dir/o
Volume in drive C has no label.
Volume Serial Number is 907A-355E

Directory of C:\

11/27/2002  11:39 AM  <DIR>          apache
11/24/2002  09:41 AM  <DIR>          books
11/19/2002  11:04 PM  <DIR>          compaq
11/18/2002  03:58 AM  <DIR>          Documents and Settings
11/27/2002  10:29 AM  <DIR>          Download
11/18/2002  04:58 AM  <DIR>          My Music
12/15/2002  03:34 AM  <DIR>          Poetry Encyclopedia
12/10/2002  01:06 PM  <DIR>          Program Files
12/09/2002  07:20 PM  <DIR>          WINDOWS
11/18/2002  03:18 AM  0 AUTOEXEC.BAT
11/18/2002  03:18 AM  0 CONFIG.SYS
11/29/2002  07:12 PM  9,862 java9.txt
06/06/2001  02:28 AM  1,071 my_cnf.bak
12/16/2002  03:57 PM  13,030 PDOXUSRS.NET
                    5 File(s)              23,963 bytes
                    9 Dir(s)             6,344,851,456 bytes free

C:\>

```

It is possible to use more than one instruction in one line together

```

C:\WINDOWS\System32\cmd.exe
C:\>dir/o/w
Volume in drive C has no label.
Volume Serial Number is 907A-355E

Directory of C:\

[apache]                [bb]                    [books]
[compaq]                [Documents and Settings] [Download]
[My Music]              [Poetry Encyclopedia]  [Program Files]
[WINDOWS]               [Ωπθπ ππππ]           aa.txt
AUTOEXEC.BAT           CONFIG.SYS              my_cnf.bak
PDOXUSRS.NET
                    5 File(s)              14,116 bytes
                    11 Dir(s)             6,342,758,400 bytes free

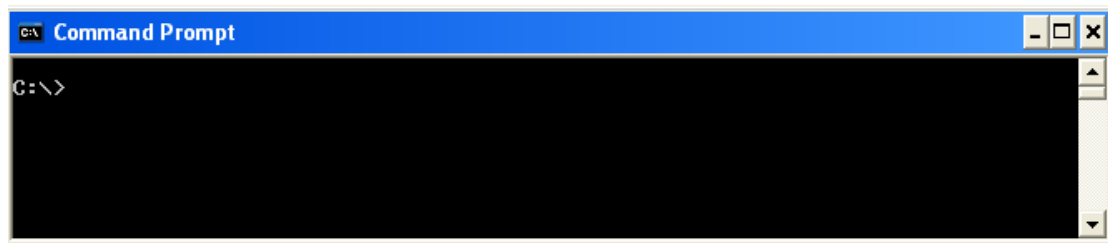
C:\>

```

2- CLS Instruction : used to clear screen

```
C:\>cls
```

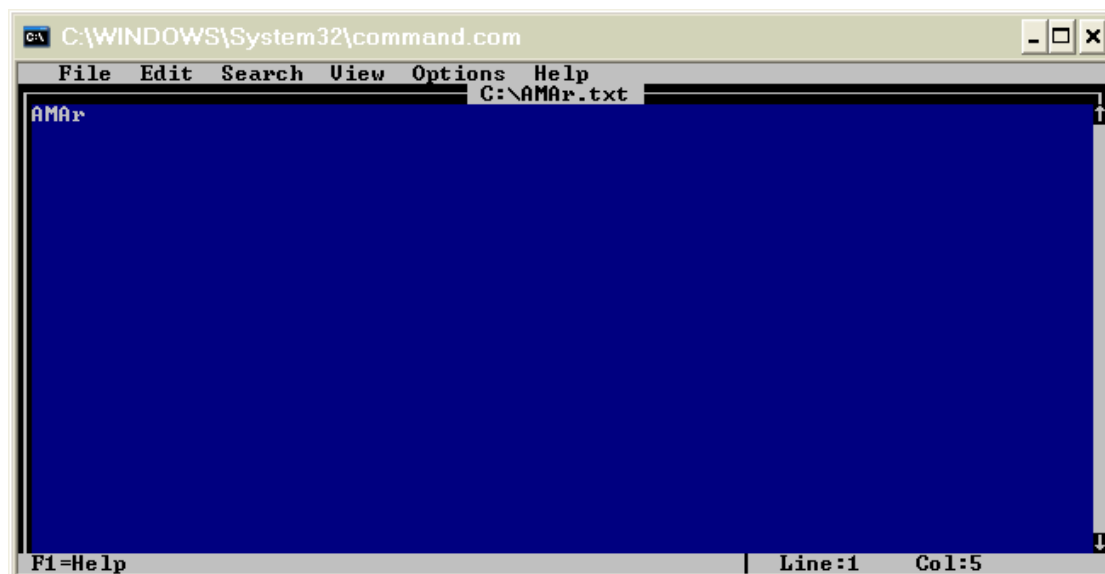
when press enter



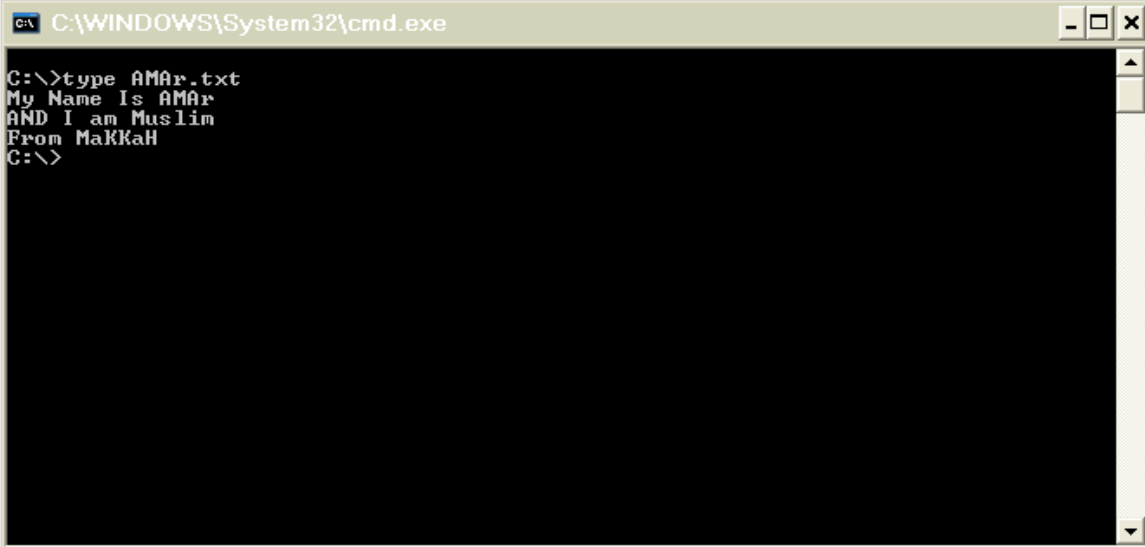
4-EDIT Instruction: allow the display, edit and create text files through the use of text editor used by DOS operating system.



When press enter, the text editor will opened with the content of the text file

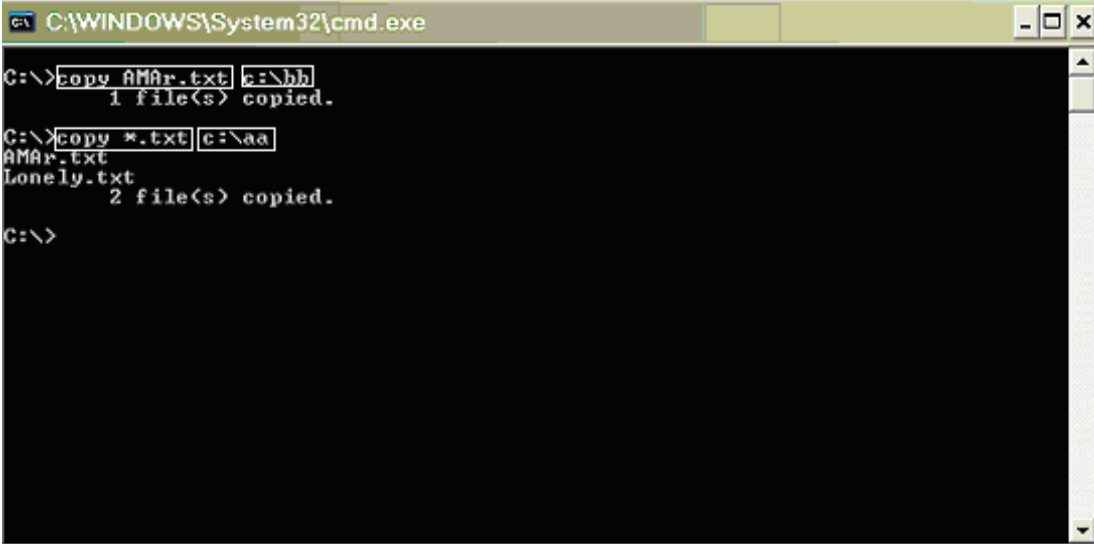


5-TYPE Instruction: used to open the text files to read their content only



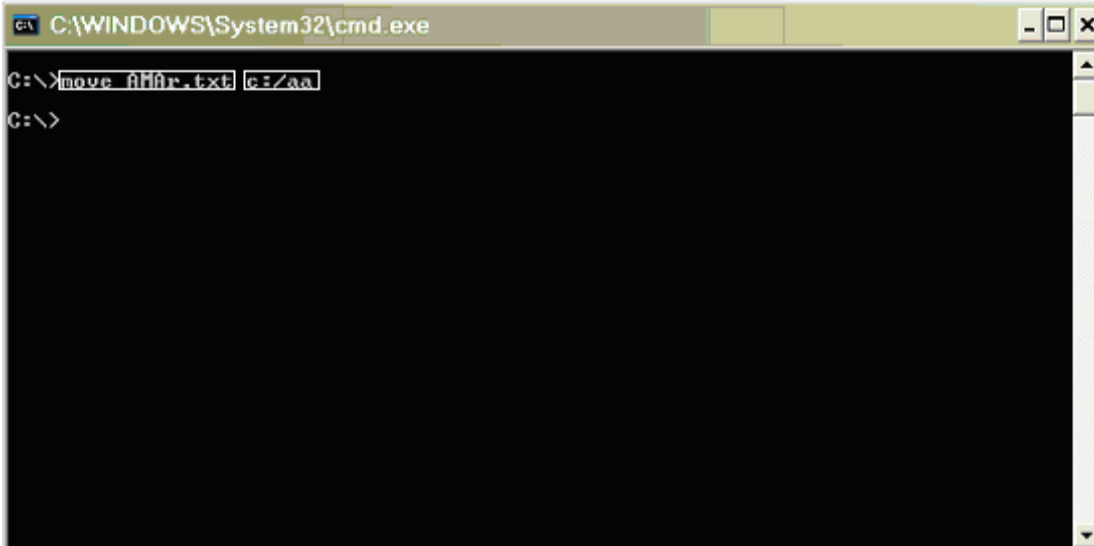
```
C:\WINDOWS\System32\cmd.exe
C:\>type AMAR.txt
My Name Is AMAR
AND I am Muslim
From MaKkaH
C:\>
```

6- COPY Instruction: used to copy file or more from place to another



```
C:\WINDOWS\System32\cmd.exe
C:\>copy AMAR.txt c:\hh
1 file(s) copied.
C:\>copy *.txt c:\aa
AMAR.txt
Lonely.txt
2 file(s) copied.
C:\>
```

7-MOVE Instruction: used to move files from place to another, not copy.



```
C:\WINDOWS\System32\cmd.exe
C:\>move AMAR.txt c:/aa
C:\>
```

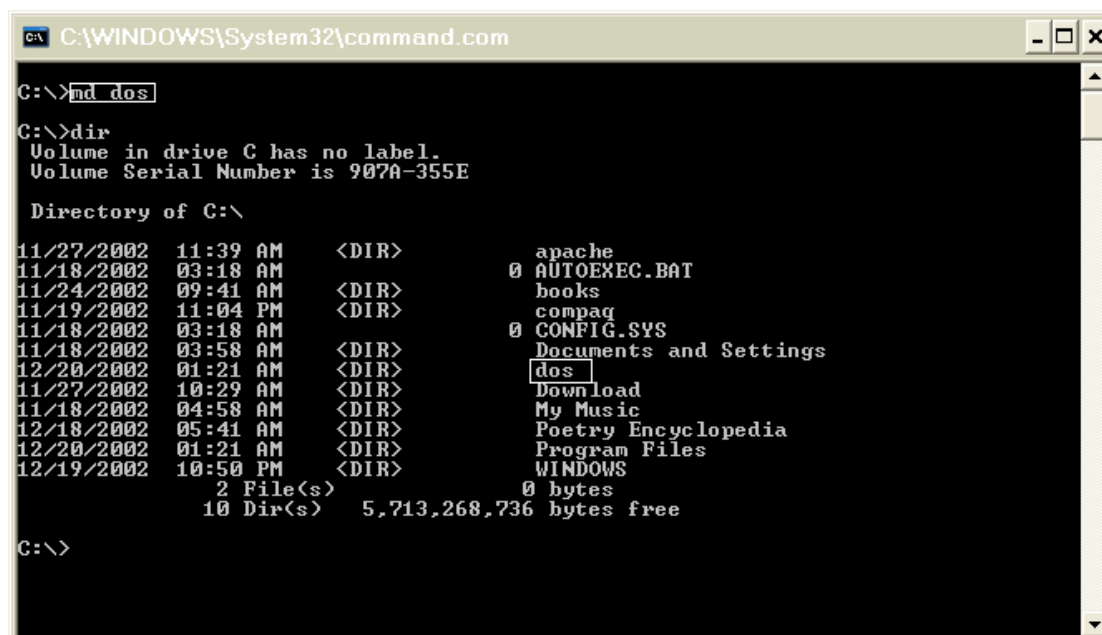
8-**DEL** Instruction: used to delete files



```
C:\WINDOWS\System32\cmd.exe
C:\>del AMAr.txt
C:\>
```

9-**DELTREE** Instruction: used to delete specific file with its content

10- **MD** Instruction: (Make Directory used to create new folder.



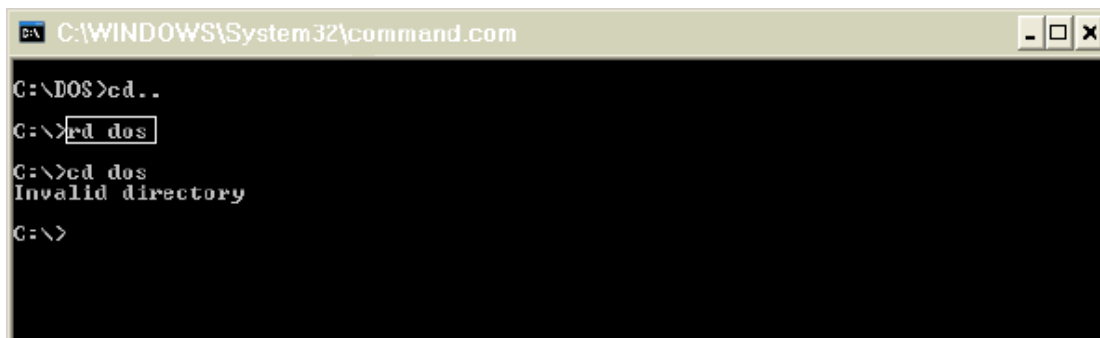
```
C:\WINDOWS\System32\command.com
C:\>md dos
C:\>dir
Volume in drive C has no label.
Volume Serial Number is 907A-355E

Directory of C:\

11/27/2002  11:39 AM    <DIR>          apache
11/18/2002  03:18 AM    <FILE>        0 AUTOEXEC.BAT
11/24/2002  09:41 AM    <DIR>          books
11/19/2002  11:04 PM    <DIR>          compaq
11/18/2002  03:18 AM    <FILE>        0 CONFIG.SYS
11/18/2002  03:58 AM    <DIR>          Documents and Settings
12/20/2002  01:21 AM    <DIR>          dos
11/27/2002  10:29 AM    <DIR>          Download
11/18/2002  04:58 AM    <DIR>          My Music
12/18/2002  05:41 AM    <DIR>          Poetry Encyclopedia
12/20/2002  01:21 AM    <DIR>          Program Files
12/19/2002  10:50 PM    <DIR>          WINDOWS
                2 File(s)      0 bytes
                10 Dir(s)  5,713,268,736 bytes free

C:\>
```


11-**RM** Instruction :(Remove Directory) used to delete an empty folder.



```

C:\WINDOWS\System32\command.com
C:\DOS>cd..
C:\>rd dos
C:\>cd dos
Invalid directory
C:\>
  
```

12-**REN** Instruction: used to rename files and folders



```

C:\WINDOWS\System32\cmd.exe
C:\>ren AM01.txt dos.txt
C:\>
  
```

13-**FORMAT** Instruction: used to remove all the floppy and hard disk content

FORMAT C	format disk normally
FORMAT C:/S	format disk with copying the system file after format
FORMAT C:/Q	format the disk quickly
FORMAT C:/Q/U	format the disk quickly with unable to get data back