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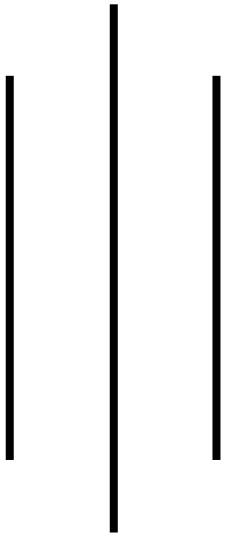

LAB REPORT ON: IIT

LAB REPORT NO: 01

SUBMITTED BY

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TITLE: FAMILIARIZATION WITH MS-DOS

THEORY

INTRODUCTION
MS-DOS is a single user operating system developed by IBM and Microsoft in 1981. It is a text based operating system. It is also known as CUI (Character or Command User Interface). It consists of some internal and external commands.

How to open MS-DOS?
- Go to run or search option
- Type the application file name ‘cmd’ or ‘command prompt’
- Click enter or OK button

ADVANTAGES
- Lightweight and efficient
- Fast performance
- Direct hardware access
- Batch scripting for automation
- High stability
- Broad compatibility

DISADVANTAGES
- Limited graphical interface
- Outdated features
- Steeper learning curve
- Less multitasking capability
- Restricted multimedia functions
- Less user-friendly compared to GUI OS

FEATURES
- Command-line interface
- File management
- Batch processing
- Text editing
- Memory management
- System configuration
- Device drivers

COMMANDS

Some Internal Commands

1. **Cls** – to clear the screen

   Syntax: C:\>cls↵

OUTPUT:

Before using command

```
01/04/2024  08:57 AM    <DIR>          Pictures
12/18/2023  04:40 PM    <DIR>          Saved Games
12/18/2023  04:41 PM    <DIR>          Searches
03/08/2024  11:46 AM    <DIR>          source
01/14/2024  03:08 PM    <DIR>          Videos
               7 File(s)            811 bytes
              28 Dir(s)  33,026,854,912 bytes free

C:\Users\suresh>cls
```

After using command

```
C:\Users\suresh>
```

2. **Dir** – to see directories and files

   Syntax: C:\>dir↵

OUTPUT

```
C:\suresh>dir
 Volume in drive C has no label.
 Volume Serial Number is 0AF4-3679

 Directory of C:\suresh

03/16/2024  06:39 PM    <DIR>          .
03/16/2024  06:39 PM    <DIR>          ..
03/16/2024  06:39 PM    <DIR>          d1
03/16/2024  06:39 PM    <DIR>          d2
03/16/2024  06:39 PM    <DIR>          d3
               0 File(s)              0 bytes
               5 Dir(s)  33,026,392,064 bytes free
```

3. **Md** – to make a new directory

   Syntax: C:\>md <directory_name>↵

OUTPUT

```
C:\suresh>md d4

C:\suresh>dir
 Volume in drive C has no label.
 Volume Serial Number is 0AF4-3679

 Directory of C:\suresh

03/16/2024  06:40 PM    <DIR>          .
03/16/2024  06:40 PM    <DIR>          ..
03/16/2024  06:39 PM    <DIR>          d1
03/16/2024  06:39 PM    <DIR>          d2
03/16/2024  06:39 PM    <DIR>          d3
03/16/2024  06:40 PM    <DIR>          d4
               0 File(s)              0 bytes
               6 Dir(s)  33,025,236,992 bytes free
```

4. **Rd –** to remove a directory
   Syntax: C:\>rd ␣ <directory_name>↵

OUTPUT:

```
C:\suresh>rd d4

C:\suresh>dir
 Volume in drive C has no label.
 Volume Serial Number is 0AF4-3679

 Directory of C:\suresh

03/16/2024  06:42 PM    <DIR>          .
03/16/2024  06:42 PM    <DIR>          ..
03/16/2024  06:39 PM    <DIR>          d1
03/16/2024  06:39 PM    <DIR>          d2
03/16/2024  06:39 PM    <DIR>          d3
               0 File(s)              0 bytes
               5 Dir(s)  33,023,594,496 bytes free
```

5. **Cd –** to change drive or path name
   Syntax:
   a. **To change drive or path name one by one**
   C:\>cd.. ↵
   Eg:
   C:\BIT\users>cd..↵
   C:\BIT>

   b. **To change drive or path name at once**
   C:\BIT\users>cd\ ↵
   C:\>

OUTPUT:

```
C:\suresh>cd d2

C:\suresh\d2>cd
C:\suresh\d2

C:\suresh\d2>cd ..

C:\suresh>cd \

C:\>
```

6. **Ver –** to see version of windows
   Syntax:
   C:\>ver ↵

OUTPUT:

```
C:\>VER

Microsoft Windows [Version 10.0.19045.4170]

C:\>
```

7. **Vol –** to see volume label or serial number
   Syntax: C:\>vol ↵

OUTPUT:

```
C:\>vol
 Volume in drive C has no label.
 Volume Serial Number is 0AF4-3679
```

8. **Date and time –** to see or enter current date and time
   Syntax:
   C:\>date ↵
   C:\>time ↵

OUTPUT:

```
C:\>DATE
The current date is: Sat 03/16/2024
Enter the new date: (mm-dd-yy)

C:\>time
The current time is: 18:45:59.44
Enter the new time:
```

9. **Copy con –** to create a new file
   Syntax:
   C:\>copy␣ con␣ <file_name>↵

OUTPUT:

```
C:\suresh\d1>copy con new_file.txt
This is new file created from ms dos^Z
        1 file(s) copied.

C:\suresh\d1>dir
 Volume in drive C has no label.
 Volume Serial Number is 0AF4-3679

 Directory of C:\suresh\d1

03/16/2024  06:47 PM    <DIR>          .
03/16/2024  06:47 PM    <DIR>          ..
03/16/2024  06:47 PM                36 new_file.txt
               1 File(s)             36 bytes
               2 Dir(s)  33,022,918,656 bytes free
```

10. **Ren –** to rename a file
    Syntax:
    C:\>ren␣ <old_name>␣ <new_name> ↵

OUTPUT:

```
C:\suresh\d1>ren new_file.txt old.txt

C:\suresh\d1>dir
 Volume in drive C has no label.
 Volume Serial Number is 0AF4-3679

 Directory of C:\suresh\d1

03/16/2024  06:48 PM    <DIR>          .
03/16/2024  06:48 PM    <DIR>          ..
03/16/2024  06:47 PM                36 old.txt
```

11. Copy – to copy file from one location to another

Syntax:

C:\>copy␣ <source>␣ <destination>↵

OUTPUT:

```
C:\suresh\d1>copy old.txt another_file.txt
        1 file(s) copied.

C:\suresh\d1>dir
 Volume in drive C has no label.
 Volume Serial Number is 0AF4-3679

 Directory of C:\suresh\d1

03/16/2024  06:50 PM    <DIR>          .
03/16/2024  06:50 PM    <DIR>          ..
03/16/2024  06:47 PM                36 another_file.txt
03/16/2024  06:47 PM                36 old.txt
               2 File(s)             72 bytes
               2 Dir(s)  33,019,256,832 bytes free
```

12. Type – to see or display the content of a file

Syntax:

C:\>type␣ <file_name>↵

OUTPUT:

```
C:\suresh\d1>type old.txt
This is new file created from ms dos
C:\suresh\d1>
```

13. Del – to delete a file

Syntax:

C:\>del␣ <file_name>↵

OUTPUT:

```
C:\suresh\d1>del old.txt

C:\suresh\d1>dir
 Volume in drive C has no label.
 Volume Serial Number is 0AF4-3679

 Directory of C:\suresh\d1

03/16/2024  06:51 PM    <DIR>          .
03/16/2024  06:51 PM    <DIR>          ..
03/16/2024  06:47 PM                36 another_file.txt
               1 File(s)             36 bytes
```

Some External Commands

1. **Chkdsk –** to check the disk status
   Syntax: C:\>chkdsk ␣ <drive_letter> ↵

OUTPUT:

```
C:\>CHKDSK
The type of the file system is NTFS.

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

Stage 1: Examining basic file system structure ...
  1095168 file records processed.
File verification completed.
 Phase duration (File record verification): 20.12 seconds.
  13692 large file records processed.
 Phase duration (Orphan file record recovery): 0.00 milliseconds.
  0 bad file records processed.
 Phase duration (Bad file record checking): 0.20 milliseconds.
```

2. **Format –** to delete the content of a drive
   Syntax: C:\>format ␣ <drive_letter> ↵

3. **Tree –** to see tree structure
   Syntax: C:\>tree␣ <drive_letter> ↵

OUTPUT:

```
C:\>CD SURESH

C:\suresh>TREE
Folder PATH listing
Volume serial number is 0AF4-3679
C:.
├───d1
├───d2
└───d3
```

4. **Attrib –** too see and change the properties of a file
   Syntax:
   a. **To hide a file**
      C:\>attrib ␣ +h␣ <file_name> ↵

OUTPUT:

```
C:\suresh\d1>attrib +h another_file.txt

C:\suresh\d1>attrib another_file.txt
A   H                C:\suresh\d1\another_file.txt
```

   b. **To unhide a file**
      C:\>attrib ␣ -h ␣ <file_name>↵

OUTPUT:

```
C:\suresh\d1>attrib -h another_file.txt

C:\suresh\d1>attrib another_file.txt
A                    C:\suresh\d1\another_file.txt
```

c. To make file read-only

C:\>attrib ␣ +r ␣ <file_name>↵

OUTPUT:

```
C:\suresh\d1>attrib +r another_file.txt

C:\suresh\d1>attrib another_file.txt
A    R              C:\suresh\d1\another_file.txt
```

d. To remove read-only attribute

C:\>attrib ␣ -r␣ <file_name>↵

OUTPUT:

```
C:\suresh\d1>attrib -r another_file.txt

C:\suresh\d1>attrib another_file.txt
A                   C:\suresh\d1\another_file.txt
```

e. To view attribute of a file

C:\>attrib ␣ <file_name> ↵

OUTPUT:

```
C:\suresh\d1>attrib another_file.txt
A                   C:\suresh\d1\another_file.txt
```

5. **Path -** Sets or displays directories that will be searched for programs not in the current directory.

OUTPUT:

```
C:\suresh\d1>path
PATH=C:\Python312\Scripts\;C:\Python312\;C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:
dowsPowerShell\v1.0\;C:\Windows\System32\OpenSSH\;C:\Program Files\Git\cmd;C:\MinGW\bin;C:\Program
ramData\chocolatey\bin;C:\platform-tools;C:\xampp\php;C:\ProgramData\ComposerSetup\bin;C:\Program F
C:\Program Files\Microsoft SQL Server\150\Tools\Binn\;C:\Program Files\Microsoft SQL Server\Client
nn\;C:\Program Files\dotnet\;C:\Users\suresh\AppData\Local\Android\Sdk\platform-tools;C:\Users\sure
oid\Sdk\tools;C:\Users\suresh\AppData\Local\pnpm;C:\Users\suresh\AppData\Local\Microsoft\WindowsApp
ata\Local\Programs\Microsoft VS Code\bin;C:\Users\coder\AppData\Roaming\npm;C:\Users\suresh\AppData
dor\bin;C:\Users\suresh\AppData\Local\Programs\Microsoft VS Code\bin;C:\Users\suresh\.dotnet\tools
```

CONCLUSION:

By doing this lab, we have used different internal and external commands to see how MS-DOS works and what we can do with it. We have learned to open MS-DOS and perform several operations through it like creating and deleting file and directories, navigating between directories and setting and removing different attributes on a file.