

OPERATING SYSTEM LAB 1 – WEEK 1

Roll No.: K041	Name: Anish Sudhan Nair
Batch No.: A2/K2	Date: 08/12/2021

Aim: To be introduced to the MS-DOS Commands on windows command prompt and get familiar with the same.

Commands:

1. cd: To change directory or path

```
C:\Users\K Uathsala Davi>cd ..  
C:\Users>
```

2. cls: To clear the window

```
C:\Users>random gibberish  
'random' is not recognized as an internal or external command,  
operable program or batch file.  
C:\Users>cls_  
C:\Users>
```

3. dir: To display contents of a directory

```
C:\Users\K Uathsala Davi>dir  
Volume in drive C has no label.  
Volume Serial Number is C06F-CB88  
  
Directory of C:\Users\K Uathsala Davi  
  
07/22/2021  11:24 PM    <DIR>          .  
07/22/2021  11:24 PM    <DIR>          ..  
09/13/2020  09:07 PM    <DIR>          .android  
08/06/2021  12:04 PM             322 .bash_history  
12/11/2018  11:31 PM    <DIR>          Contacts  
12/07/2021  10:14 PM    <DIR>          Desktop  
09/23/2020  11:12 PM    <DIR>          Documents  
08/25/2021  08:04 PM    <DIR>          Downloads  
12/11/2018  11:31 PM    <DIR>          Favorites  
12/11/2018  11:31 PM    <DIR>          Links  
09/11/2020  02:01 PM    <DIR>          Music  
08/23/2021  04:09 PM    <DIR>          oop note  
04/17/2021  11:57 PM    <DIR>          Pictures  
12/11/2018  11:31 PM    <DIR>          Saved Games  
12/16/2018  11:10 AM    <DIR>          Searches  
12/11/2018  11:31 PM    <DIR>          Videos  
               1 File(s)                322 bytes  
               15 Dir(s)  810,477,793,280 bytes free  
C:\Users\K Uathsala Davi>_
```

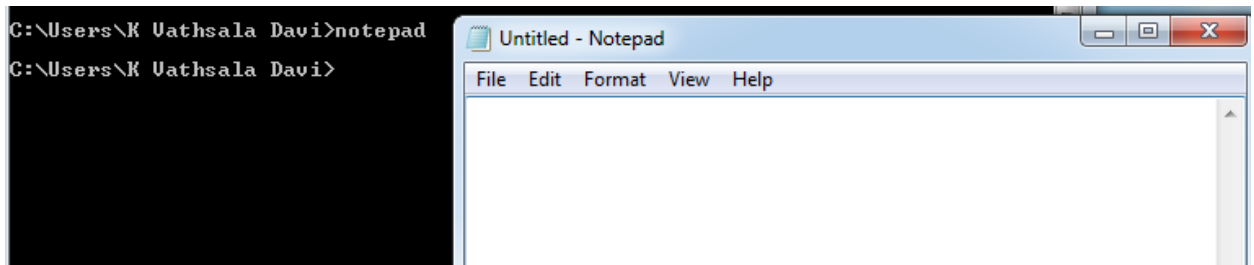
4. help: To display the list of commands

```

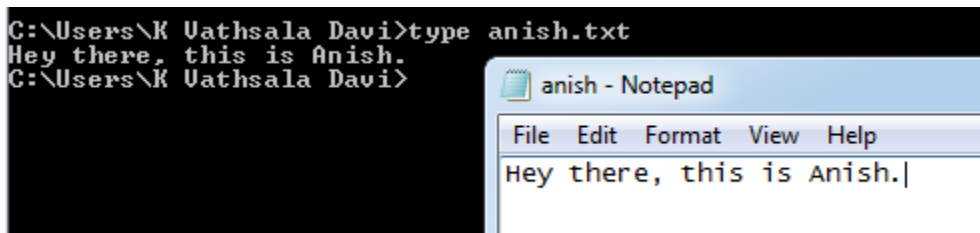
C:\Users\K Uathsala Davi>help
For more information on a specific command, type HELP command-name
ASSOC      Displays or modifies file extension associations.
ATTRIB     Displays or changes file attributes.
BREAK      Sets or clears extended CTRL+C checking.
BCDEDIT    Sets properties in boot database to control boot loading.
CACLS      Displays or modifies access control lists (ACLs) of files.
CALL       Calls one batch program from another.
CD         Displays the name of or changes the current directory.
CHCP       Displays or sets the active code page number.
CHDIR      Displays the name of or changes the current directory.
CHKDSK     Checks a disk and displays a status report.
CHKNTFS    Displays or modifies the checking of disk at boot time.
CLS        Clears the screen.
CMD        Starts a new instance of the Windows command interpreter.
COLOR      Sets the default console foreground and background colors.
COMP       Compares the contents of two files or sets of files.
COMPACT    Displays or alters the compression of files on NTFS partitions.
CONVERT    Converts FAT volumes to NTFS. You cannot convert the
           current drive.
COPY       Copies one or more files to another location.
DATE       Displays or sets the date.
DEL        Deletes one or more files.
DIR        Displays a list of files and subdirectories in a directory.
DISKCOMP   Compares the contents of two floppy disks.
DISKCOPY   Copies the contents of one floppy disk to another.
DISKPART   Displays or configures Disk Partition properties.
DOSKEY     Edits command lines, recalls Windows commands, and
           creates macros.
DRIVERQUERY Displays current device driver status and properties.
ECHO       Displays messages, or turns command echoing on or off.
ENDLOCAL   Ends localization of environment changes in a batch file.
ERASE      Deletes one or more files.
EXIT       Quits the CMD.EXE program (command interpreter).
FC         Compares two files or sets of files, and displays the
           differences between them.
FIND       Searches for a text string in a file or files.
FINDSTR    Searches for strings in files.
FOR        Runs a specified command for each file in a set of files.
FORMAT     Formats a disk for use with Windows.
FSUTIL     Displays or configures the file system properties.
FTYPE      Displays or modifies file types used in file extension
           associations.

```

5. notepad: To run the Notepad text editor application



6. type: To display the contents of a text file



7. ipconfig: To display internet configuration

```

C:\Users\K Uathsala Davi>ipconfig

Windows IP Configuration

Unknown adapter NordLynx:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

Ethernet adapter Local Area Connection 2:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

Wireless LAN adapter Wireless Network Connection 3:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

Wireless LAN adapter Wireless Network Connection 2:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

Wireless LAN adapter Wireless Network Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

Ethernet adapter Local Area Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

Tunnel adapter isatap.{C44F0C31-A33E-4F9A-A60C-8CF0E3295D74}:

```

8. netsh: To display the network services shell

```

C:\Users\K Uathsala Davi>netsh
netsh>help

The following commands are available:

Commands in this context:
?          - Goes up one context level.
abort      - Discards changes made while in offline mode.
add         - Adds a configuration entry to a list of entries.
advfirewall - Changes to the 'netsh advfirewall' context.
alias      - Adds an alias.
bridge     - Changes to the 'netsh bridge' context.
bye        - Exits the program.
commit     - Commits changes made while in offline mode.
delete     - Deletes a configuration entry from a list of entries.
dhcpcclient - Changes to the 'netsh dhcpcclient' context.
dnsclient  - Changes to the 'netsh dnscclient' context.
dump       - Displays a configuration script.
exec       - Runs a script file.
exit       - Exits the program.
firewall   - Changes to the 'netsh firewall' context.
help       - Displays a list of commands.
http       - Changes to the 'netsh http' context.
interface  - Changes to the 'netsh interface' context.
ipsec      - Changes to the 'netsh ipsec' context.
lan        - Changes to the 'netsh lan' context.
mbn        - Changes to the 'netsh mbn' context.
namespace  - Changes to the 'netsh namespace' context.
nap        - Changes to the 'netsh nap' context.
netio      - Changes to the 'netsh netio' context.
offline    - Sets the current mode to offline.
online     - Sets the current mode to online.
p2p        - Changes to the 'netsh p2p' context.
popd       - Pops a context from the stack.
pushd      - Pushes current context on stack.
quit       - Exits the program.
ras        - Changes to the 'netsh ras' context.
rpc        - Changes to the 'netsh rpc' context.
set        - Updates configuration settings.
show       - Displays information.
trace      - Changes to the 'netsh trace' context.
unalias    - Deletes an alias.
wcn        - Changes to the 'netsh wcn' context.
wfp        - Changes to the 'netsh wfp' context.
winhttp    - Changes to the 'netsh winhttp' context.
winsock    - Changes to the 'netsh winsock' context.
wlan       - Changes to the 'netsh wlan' context.

The following sub-contexts are available:
advfirewall bridge dhcpcclient dnscclient firewall http interface ipsec lan mbn namespace nap netio p2p ras rpc trace wcn wfp winhttp winsock wlan

To view help for a command, type the command, followed by a space, and then type ?.

netsh>exit

```

9. netstat: To display current TCP/IP network connections and statistics

```
C:\Users\K Vathsala Davi>netstat

Active Connections

Proto Local Address           Foreign Address         State
TCP   127.0.0.1:5354           KVathsalaDavi:49155    ESTABLISHED
TCP   127.0.0.1:5354           KVathsalaDavi:49156    ESTABLISHED
TCP   127.0.0.1:27015         KVathsalaDavi:49159    ESTABLISHED
TCP   127.0.0.1:49155         KVathsalaDavi:5354     ESTABLISHED
TCP   127.0.0.1:49156         KVathsalaDavi:5354     ESTABLISHED
TCP   127.0.0.1:49159         KVathsalaDavi:27015    ESTABLISHED
```

10. nslookup: To lookup IP addresses to/from domain name

```
C:\Users\K Vathsala Davi>nslookup
*** Default servers are not available
Default Server: UnKnown
Address: 127.0.0.1
```

11. tree: To display the directory structure in a graphical manner

```
C:\Users\K Vathsala Davi>tree
Folder PATH listing
Volume serial number is C06F-CB88
C:
├── .android
├── Contacts
├── Desktop
│   ├── Anish to edit
│   ├── Blended learning
│   │   ├── IEEE
│   │   └── NDLI
│   ├── CISTrip
│   ├── INE_PT_pre
│   ├── linux_edx
│   └── MOOC
└── M
```

12. time: To display or set the time of the computer

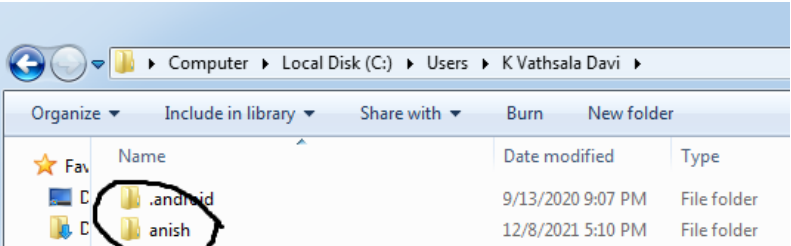
```
C:\Users\K Vathsala Davi>time
The current time is: 17:07:56.92
Enter the new time:
C:\Users\K Vathsala Davi>
```

13. date: To display or set the date of the computer

```
C:\Users\K Vathsala Davi>date
The current date is: Wed 12/08/2021
Enter the new date: <mm-dd-yy>
C:\Users\K Vathsala Davi>
```

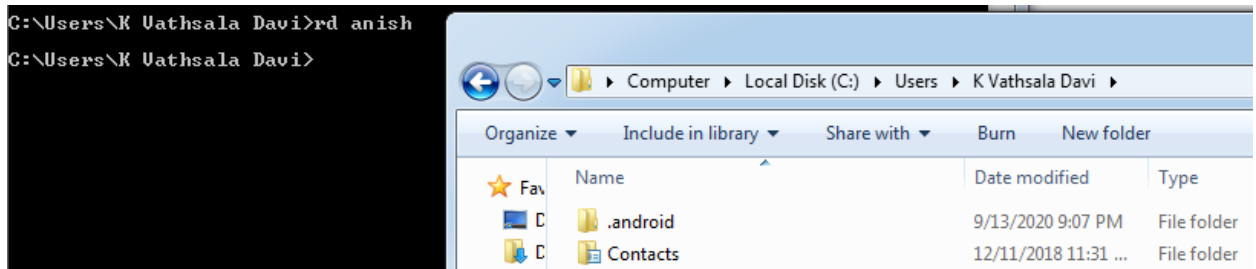
14. mkdir: To create a new directory

```
C:\Users\K Vathsala Davi>mkdir anish
C:\Users\K Vathsala Davi>
```

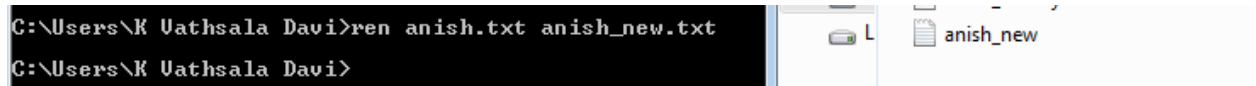


The screenshot shows a Windows File Explorer window with the address bar set to 'Computer > Local Disk (C:) > Users > K Vathsala Davi'. The 'Organize' menu is open, and the 'anish' folder is highlighted with a red circle. The file list shows two folders: '.android' (modified 9/13/2020 9:07 PM) and 'anish' (modified 12/8/2021 5:10 PM).

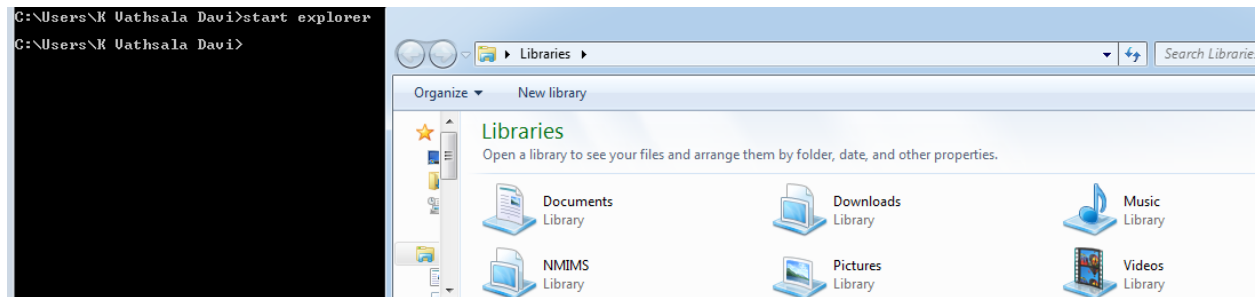
15. rd: To remove an existing directory



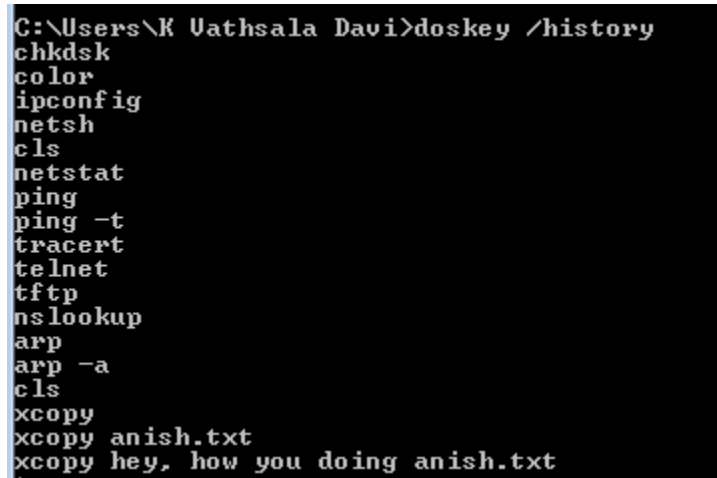
16. ren: To rename a file or files



17. start: To start a new window to run an application



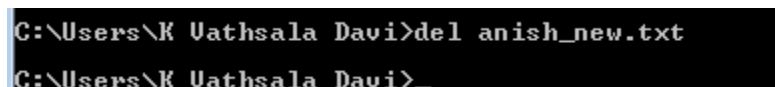
18. doskey: To display history or define macros



19. arp: To display ARP translation tables



20. del: To delete a file or files



CONCLUSION:

In this lab, we were introduced to the MS-DOS Commands and this is helpful in navigating the windows file structure through the terminal and only using a keyboard.