

Windows CMD Fun



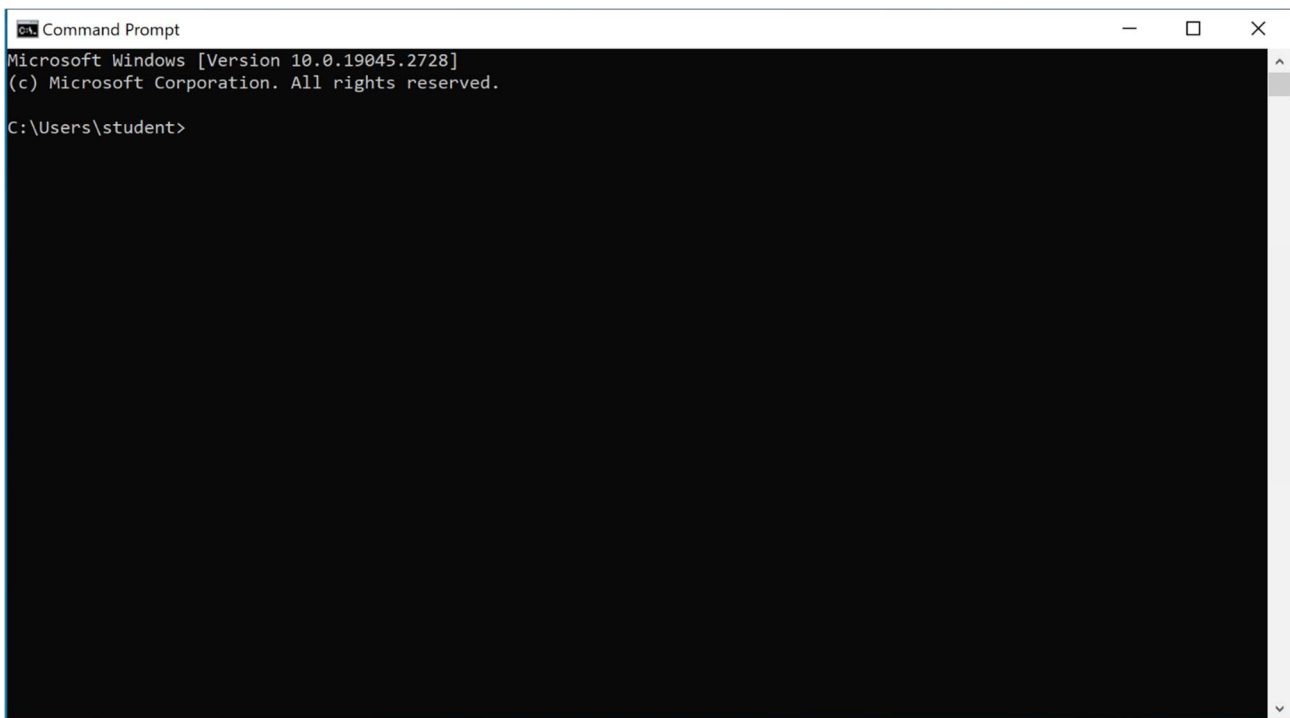
Table of Contents

Task 1 – Downloading Debian ISO image.	3
Step 1 – Visit Debian home page	Error! Bookmark not defined.
System commands:	13

Task 1 – Basic CMD commands: .

Part 1 – Moving in CLI

help - displays help.

A screenshot of a Windows Command Prompt window. The title bar reads "Command Prompt" and includes standard window control buttons (minimize, maximize, close). The main content area is black with white text. It displays the following information: "Microsoft Windows [Version 10.0.19045.2728]", "(c) Microsoft Corporation. All rights reserved.", and the current directory "C:\Users\student>".

```
Command Prompt
Microsoft Windows [Version 10.0.19045.2728]
(c) Microsoft Corporation. All rights reserved.

C:\Users\student>
```

```

Command Prompt
Microsoft Windows [Version 10.0.19045.2728]
(c) Microsoft Corporation. All rights reserved.

C:\Users\student>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.
DISKPART       Displays or configures Disk Partition properties.
DOSKEY         Edits command lines, recalls Windows commands, and
               creates macros.
    
```

dir - list content of current directory

```

Command Prompt
C:\Users\student>dir
Volume in drive C has no label.
Volume Serial Number is 3448-DDB9

Directory of C:\Users\student

03/13/2024  07:38 PM  <DIR>      .
03/13/2024  07:38 PM  <DIR>      ..
04/03/2023  08:47 PM          260 .bash_history
04/01/2023  11:43 PM  <DIR>      .dotnet
11/12/2022  06:15 PM  <DIR>      3D Objects
11/12/2022  06:15 PM  <DIR>      Contacts
03/13/2024  06:36 PM  <DIR>      Desktop
04/03/2023  08:46 PM  <DIR>      dnSpy
11/12/2022  06:15 PM  <DIR>      Documents
04/03/2023  08:47 PM  <DIR>      Downloads
11/12/2022  06:15 PM  <DIR>      Favorites
11/12/2022  06:15 PM  <DIR>      Links
11/12/2022  06:15 PM  <DIR>      Music
11/12/2022  06:21 PM  <DIR>      OneDrive
11/12/2022  06:20 PM  <DIR>      Pictures
11/12/2022  06:15 PM  <DIR>      Saved Games
11/12/2022  06:20 PM  <DIR>      Searches
11/12/2022  06:15 PM  <DIR>      Videos
               1 File(s)                260 bytes
               17 Dir(s)      2,659,794,944 bytes free

C:\Users\student>
    
```

cd or chdir - Changes the Current Working Directory to the Specified Directory

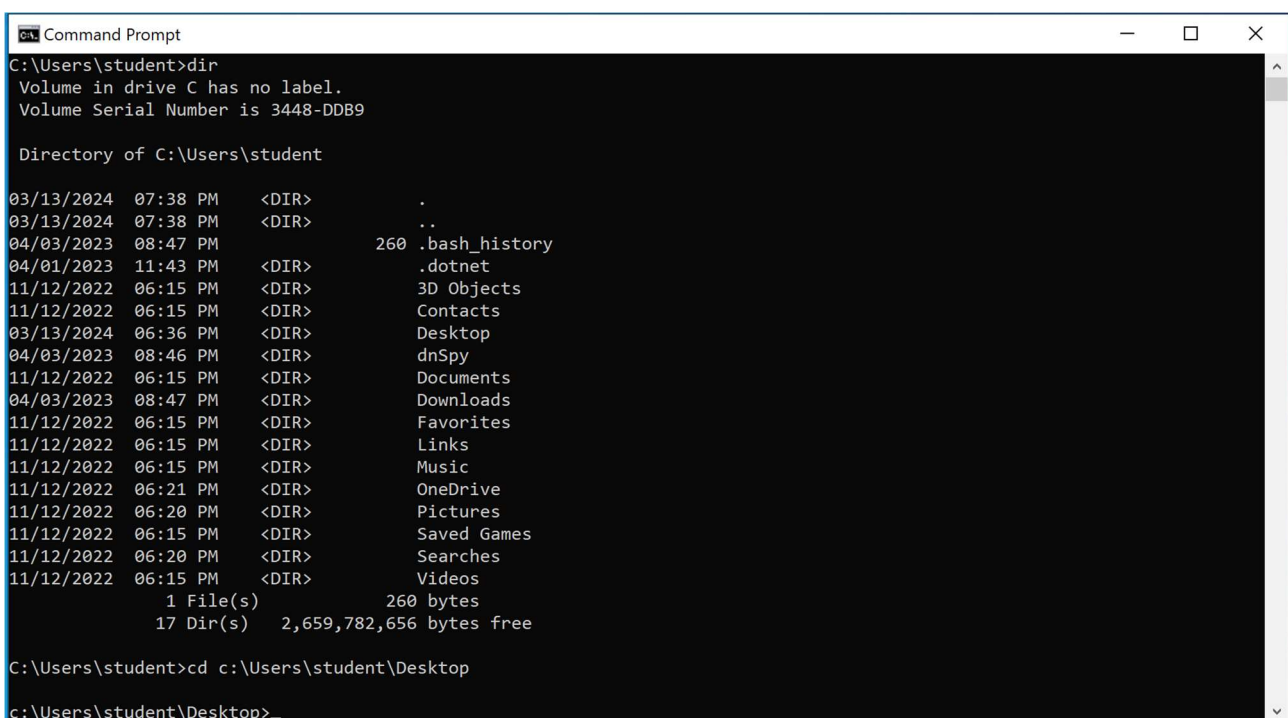
Part 2 - Relative vs Absolute path:

Absolute path:

Absolute path is when you are referring to file location from beginning of partition, in Windows it always starts with drive letter.

We are in `c:\Users\student` and we want to go to `c:\Users\student\Desktop`

cd c:\Users\student\Desktop



```
Command Prompt
C:\Users\student>dir
Volume in drive C has no label.
Volume Serial Number is 3448-DEB9

Directory of C:\Users\student

03/13/2024  07:38 PM  <DIR>          .
03/13/2024  07:38 PM  <DIR>          ..
04/03/2023  08:47 PM           260 .bash_history
04/01/2023  11:43 PM  <DIR>          .dotnet
11/12/2022  06:15 PM  <DIR>          3D Objects
11/12/2022  06:15 PM  <DIR>          Contacts
03/13/2024  06:36 PM  <DIR>          Desktop
04/03/2023  08:46 PM  <DIR>          dnSpy
11/12/2022  06:15 PM  <DIR>          Documents
04/03/2023  08:47 PM  <DIR>          Downloads
11/12/2022  06:15 PM  <DIR>          Favorites
11/12/2022  06:15 PM  <DIR>          Links
11/12/2022  06:15 PM  <DIR>          Music
11/12/2022  06:21 PM  <DIR>          OneDrive
11/12/2022  06:20 PM  <DIR>          Pictures
11/12/2022  06:15 PM  <DIR>          Saved Games
11/12/2022  06:20 PM  <DIR>          Searches
11/12/2022  06:15 PM  <DIR>          Videos
           1 File(s)             260 bytes
          17 Dir(s)  2,659,782,656 bytes free

C:\Users\student>cd c:\Users\student\Desktop
c:\Users\student\Desktop>
```

chdir c:\Users\student\Desktop

```
Command Prompt
c:\Users\student>dir
Volume in drive C has no label.
Volume Serial Number is 3448-DDB9

Directory of c:\Users\student

03/13/2024 07:38 PM <DIR>      .
03/13/2024 07:38 PM <DIR>      ..
04/03/2023 08:47 PM          260 .bash_history
04/01/2023 11:43 PM <DIR>      .dotnet
11/12/2022 06:15 PM <DIR>      3D Objects
11/12/2022 06:15 PM <DIR>      Contacts
03/13/2024 06:36 PM <DIR>      Desktop
04/03/2023 08:46 PM <DIR>      dnSpy
11/12/2022 06:15 PM <DIR>      Documents
04/03/2023 08:47 PM <DIR>      Downloads
11/12/2022 06:15 PM <DIR>      Favorites
11/12/2022 06:15 PM <DIR>      Links
11/12/2022 06:15 PM <DIR>      Music
11/12/2022 06:21 PM <DIR>      OneDrive
11/12/2022 06:20 PM <DIR>      Pictures
11/12/2022 06:15 PM <DIR>      Saved Games
11/12/2022 06:20 PM <DIR>      Searches
11/12/2022 06:15 PM <DIR>      Videos
          1 File(s)          260 bytes
          17 Dir(s) 2,659,516,416 bytes free

c:\Users\student>chdir c:\Users\student\Desktop
c:\Users\student\Desktop>
```

Relative Path:

Relative path you are referring to file location from your current position.

Example:

We are in c:\Users\student and we want to go to c:\Users\student\Desktop

cd Desktop

```
Command Prompt
c:\Users\student>dir
Volume in drive C has no label.
Volume Serial Number is 3448-DDB9

Directory of c:\Users\student

03/13/2024  07:38 PM  <DIR>          .
03/13/2024  07:38 PM  <DIR>          ..
04/03/2023  08:47 PM           260 .bash_history
04/01/2023  11:43 PM  <DIR>          .dotnet
11/12/2022  06:15 PM  <DIR>          3D Objects
11/12/2022  06:15 PM  <DIR>          Contacts
03/13/2024  06:36 PM  <DIR>          Desktop
04/03/2023  08:46 PM  <DIR>          dnSpy
11/12/2022  06:15 PM  <DIR>          Documents
04/03/2023  08:47 PM  <DIR>          Downloads
11/12/2022  06:15 PM  <DIR>          Favorites
11/12/2022  06:15 PM  <DIR>          Links
11/12/2022  06:15 PM  <DIR>          Music
11/12/2022  06:21 PM  <DIR>          OneDrive
11/12/2022  06:20 PM  <DIR>          Pictures
11/12/2022  06:15 PM  <DIR>          Saved Games
11/12/2022  06:20 PM  <DIR>          Searches
11/12/2022  06:15 PM  <DIR>          Videos
           1 File(s)          260 bytes
          17 Dir(s)  2,659,319,808 bytes free

c:\Users\student>cd Desktop

c:\Users\student\Desktop>
```

chdir Desktop

cd .. - go one folder up

```
Command Prompt
c:\Users\student\Desktop>cd ..
c:\Users\student>
```

Example of relative path:

We know that in parent folder we have Desktop folder, using relative path we can change our location using command:

```
cd ../Desktop
```



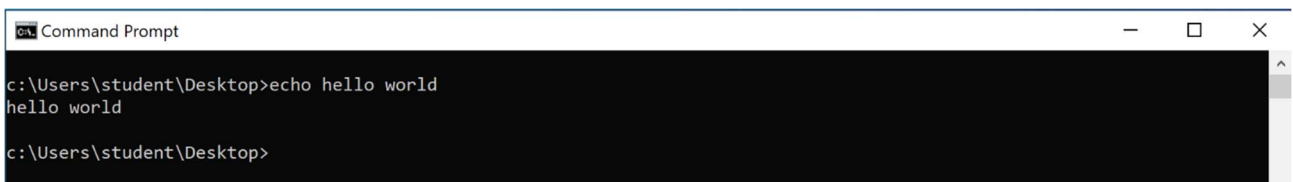
```
Command Prompt
c:\Users\student\Pictures>cd ../Desktop
c:\Users\student\Desktop>
```

Challenge:

- 1) Open CMD
- 2) Move to Users folder using absolute path
- 3) List content of Pictures folder using relative path

echo - echo message to output

```
echo hello world
```



```
Command Prompt
c:\Users\student\Desktop>echo hello world
hello world
c:\Users\student\Desktop>
```

> - Redirect

Note: It replaces file content if file already exist!

```
echo hello world > new.txt
```



```
Command Prompt
c:\Users\student\Desktop>echo hello world > new.txt
```

type – read file content.

type new.txt

```
Command Prompt
c:\Users\student\Desktop>type new.txt
hello world
c:\Users\student\Desktop>
```

>> - Append

echo second line >> new.txt

```
Command Prompt
c:\Users\student\Desktop>echo second line >> new.txt
c:\Users\student\Desktop>type new.txt
hello world
second line
```

copy – copy file or folder

copy new.txt old.txt

```
Command Prompt
c:\Users\student\Desktop>copy new.txt old.txt
1 file(s) copied.
c:\Users\student\Desktop>
```

ren - Renames a File

ren old.txt not_so_old.txt

```
Command Prompt
c:\Users\student\Desktop>ren old.txt not_so_old.txt
```

mkdir - creates directory

mkdir backup

```

Command Prompt
c:\Users\student\Desktop>mkdir backup

c:\Users\student\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is 3448-DDB9

Directory of c:\Users\student\Desktop

03/13/2024  08:27 PM  <DIR>      .
03/13/2024  08:27 PM  <DIR>      ..
03/13/2024  08:27 PM  <DIR>      backup
03/13/2024  08:19 PM                28 new.txt
03/13/2024  08:19 PM                28 not_so_old.txt
                2 File(s)          56 bytes
                3 Dir(s)  2,654,711,808 bytes free

c:\Users\student\Desktop>_

```

move – moves file or folder

```

Command Prompt
c:\Users\student\Desktop>mkdir backup

c:\Users\student\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is 3448-DDB9

Directory of c:\Users\student\Desktop

03/13/2024  08:27 PM  <DIR>      .
03/13/2024  08:27 PM  <DIR>      ..
03/13/2024  08:27 PM  <DIR>      backup
03/13/2024  08:19 PM                28 new.txt
03/13/2024  08:19 PM                28 not_so_old.txt
                2 File(s)          56 bytes
                3 Dir(s)  2,654,711,808 bytes free

c:\Users\student\Desktop>_

```

```

Command Prompt
c:\Users\student\Desktop>move backup ..\
1 dir(s) moved.

c:\Users\student\Desktop>dir ..\backup
Volume in drive C has no label.
Volume Serial Number is 3448-DDB9

Directory of c:\Users\student\backup

03/13/2024  08:28 PM  <DIR>      .
03/13/2024  08:28 PM  <DIR>      ..
03/13/2024  08:19 PM                28 not_so_old.txt
                1 File(s)          28 bytes
                2 Dir(s)  2,653,863,936 bytes free

c:\Users\student\Desktop>_

```

del - delete file

del new.txt

```

Command Prompt
c:\Users\student\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is 3448-DDB9

Directory of c:\Users\student\Desktop

03/13/2024  08:32 PM  <DIR>          .
03/13/2024  08:32 PM  <DIR>          ..
03/13/2024  08:19 PM                28 new.txt
               1 File(s)                28 bytes
               2 Dir(s)  2,653,863,936 bytes free

c:\Users\student\Desktop>del new.txt

c:\Users\student\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is 3448-DDB9

Directory of c:\Users\student\Desktop

03/13/2024  08:35 PM  <DIR>          .
03/13/2024  08:35 PM  <DIR>          ..
               0 File(s)                0 bytes
               2 Dir(s)  2,653,753,344 bytes free

c:\Users\student\Desktop>

```

rmdir - removes directory

Problem?

```

Command Prompt
c:\Users\student\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is 3448-DDB9

Directory of c:\Users\student\Desktop

03/13/2024  08:32 PM  <DIR>          .
03/13/2024  08:32 PM  <DIR>          ..
03/13/2024  08:19 PM                28 new.txt
               1 File(s)                28 bytes
               2 Dir(s)  2,653,863,936 bytes free

c:\Users\student\Desktop>del new.txt

c:\Users\student\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is 3448-DDB9

Directory of c:\Users\student\Desktop

03/13/2024  08:35 PM  <DIR>          .
03/13/2024  08:35 PM  <DIR>          ..
               0 File(s)                0 bytes
               2 Dir(s)  2,653,753,344 bytes free

c:\Users\student\Desktop>

```

Let's ask for help

rmdir /?

```

c:\Users\student\Desktop>rmdir /?
Removes (deletes) a directory.

RMDIR [/S] [/Q] [drive:]path
RD [/S] [/Q] [drive:]path

/S      Removes all directories and files in the specified directory
        in addition to the directory itself. Used to remove a directory
        tree.

/Q      Quiet mode, do not ask if ok to remove a directory tree with /S

c:\Users\student\Desktop>
  
```

Finally 😊

```

c:\Users\student\Desktop>rmdir /s ..\backup
..\backup, Are you sure (Y/N)? y

c:\Users\student\Desktop>dir ..\
Volume in drive C has no label.
Volume Serial Number is 3448-DDB9

Directory of c:\Users\student

03/13/2024  08:40 PM  <DIR>      .
03/13/2024  08:40 PM  <DIR>      ..
04/03/2023  08:47 PM                260 .bash_history
04/01/2023  11:43 PM  <DIR>      .dotnet
11/12/2022  06:15 PM  <DIR>      3D Objects
11/12/2022  06:15 PM  <DIR>      Contacts
03/13/2024  08:35 PM  <DIR>      Desktop
04/03/2023  08:46 PM  <DIR>      dnSpy
03/13/2024  08:25 PM  <DIR>      Documents
04/03/2023  08:47 PM  <DIR>      Downloads
11/12/2022  06:15 PM  <DIR>      Favorites
11/12/2022  06:15 PM  <DIR>      Links
11/12/2022  06:15 PM  <DIR>      Music
11/12/2022  06:21 PM  <DIR>      OneDrive
11/12/2022  06:20 PM  <DIR>      Pictures
11/12/2022  06:15 PM  <DIR>      Saved Games
11/12/2022  06:20 PM  <DIR>      Searches
11/12/2022  06:15 PM  <DIR>      Videos
          1 File(s)                260 bytes
          17 Dir(s)          2,656,620,544 bytes free
  
```

cls - clear screen

tree - creates tree

```

c:\Users\student\Documents>tree
Folder PATH listing
Volume serial number is 3448-DDB9
C:.
├── New folder
│   └── extracted
├── new1
│   └── new2
│       ├── new3
│       ├── new4
│       └── new5
│           ├── new6
│           ├── new7
│           └── new8
  
```

more - read file content

System commands:

(/all /flushdns /release /renew) Network Tool used for various tasks

ipconfig – show basic information about network interfaces

ipconfig /all - show detailed information

ipconfig /release - releasing IP obtained from DHCP server

ipconfig /renew- renewing IP address from DHCP server

ipconfig /flushdns - flushes local DNS cache

netstat -an - Show active connections

ping - Verifies L3 connectivity

ver - show OS version

systeminfo - detailed information about system.

sfc /scannow - System file checker

tasklist - list tasks

taskkill - kills task

