# File and Folder Management Commands



# cd - Change Directory

The cd command is used to change the current working directory.

Syntax: cd [directory\_path]

### Options:

- cd (without arguments): Changes to the user's home directory.
- cd ...: Moves to the parent directory.
- cd -: Switches back to the previous directory.
- cd ~: Changes to the user's home directory. Equivalent to cd /c/Users/username in Windows.
- cd /: Changes to the root directory.

```
MINGW64/c/Users/MCC

MCC@MRAYYAN MINGW64 ~
$ cd Desktop/ Change the current working directory to Desktop/

MCC@MRAYYAN MINGW64 ~/Desktop
$ cd . Back to the parent directory

MCC@MRAYYAN MINGW64 ~
$ cd − Switch back to the previous directory
/c/Users/MCC/Desktop

MCC@MRAYYAN MINGW64 ~/Desktop

$ cd /

MCC@MRAYYAN MINGW64 /
$ cd ~

MCC@MRAYYAN MINGW64 /
$ cd ~
```

# 1s - List Directory Contents

The 1s command lists the contents of a directory.

Syntax: ls [options] [directory\_path]

### **Options**:

- -1: Displays detailed information (long listing format).
- -a: Shows hidden files (those starting with a dot .).
- h: Human-readable file sizes (e.g., KB, MB).
- R: Recursively lists subdirectories.

```
MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls -a
./ ../ .hiddenFile dir/ file.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls -al
total 4
drwxr-xr-x 1 MCC 197608 0 Feb 11 12:30 ./
drwxr-xr-x 1 MCC 197608 0 Feb 11 12:29 ../
-rw-r--r- 1 MCC 197608 0 Feb 11 12:31 dir/
-rw-r--r- 1 MCC 197608 0 Feb 11 12:31 dir/
-rw-r--r- 1 MCC 197608 0 Feb 11 12:29 file.txt
```

# pwd - Print Working Directory

The pwd command displays the absolute path of the current working directory.

Syntax: pwd

```
MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ pwd
/c/Users/MCC/Desktop/CommandLines
```

# mkdir - Create a Directory

The mkdir command creates a new directory.

Syntax: mkdir [options] [directory\_name]

### Options:

- p: Creates parent directories as needed.

```
MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ mkdir newDir

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt

NewDir/
```

```
MCCQMRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt newDir/

MCCQMRAYYAN MINGW64 ~/Desktop/CommandLines
$ mkdir parentDir/childDir
mkdir: cannot create directory 'parentDir/childDir': No such file or directory

MCCQMRAYYAN MINGW64 ~/Desktop/CommandLines
$ mkdir -p parentDir/childDir

MCCQMRAYYAN MINGW64 ~/Desktop/CommandLines
$ mkdir -p parentDir/childDir

MCCQMRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt newDir/ parentDir/

MCCQMRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
parentDir/

MCCQMRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls parentDir/
childDir/
```

3

### touch - Create a File

The touch command creates an empty file or updates the timestamp of an existing file.

Syntax: touch [file\_name]

```
MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt newDir/ parentDir/

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ touch newFile.cs

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt newDir/ newFile.cs parentDir/

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt newDir/ newFile.cs parentDir/

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ |
```

### rm - Remove a File

The rm command deletes a file or multiple files.

Syntax: rm [options] [file\_name]

### Options:

- r: Recursively remove directories and their contents.
- f: Forcefully remove files without prompting for confirmation.

```
MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt newDir/ newFile.cs parentDir/

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ rm newDir/
rm: cannot remove 'newDir/': Is a directory

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ rm -r newDir/

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt newFile.cs parentDir/

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt newFile.cs
$ rm newFile.cs

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
dir/ file.txt parentDir/
```

# rmdir - Remove a Directory

The rmdir command removes an empty directory. it's like rm -r but only for empty directories.

Syntax: rmdir [directory\_name]

# cp - Copy a File

The cp command copies files or directories.

**Syntax**: cp [options] source destination

### Options:

- r: Recursively copy directories.
- -i: Prompt before overwriting existing files.

```
MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ touch file.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
file.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ cp file.txt ./copyOfFile.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ cp file.txt ./copyOfFile.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
copyOfFile.txt file.txt
```

### mv - Move or Rename a File/Directory

The my command moves or renames files and directories.

Syntax: mv [options] source destination

If the destination is a new file name, the source file is renamed.

```
MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
copyOfFile.txt file.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ mv copyOfFile.txt file2.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
file.txt file2.txt
```

If the destination is an existing directory, the source file is moved to that directory.

```
MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
anotherDir/ file.txt file2.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ mv file.txt ./anotherDir/

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
anotherDir/ file2.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls
anotherDir/ file2.txt

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ ls anotherDir/ file2.txt
```

7

# cat - Concatenate and Display File Content

The cat command displays the contents of a file, concatenates files, or creates new files.

Syntax: cat [options] [file\_name]

### Options:

-n: Number all output lines.

```
MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ cat file2.txt
Hi There...

MCC@MRAYYAN MINGW64 ~/Desktop/CommandLines
$ cat -n file2.txt

1 Hi There...
```

### clear - Clear the Terminal Screen

The clear command clears the terminal screen of all previous commands and output.

Syntax: clear