

Assignment No. 2

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Basic Git Bash Commands

This document provides an overview of basic Git Bash commands. Each command is explained briefly, and screenshots are included to demonstrate the commands in action. Below is a list of the commands covered:

1. cd command
2. ls command (including sub-commands: -s, -l, etc.)
3. man command
4. mkdir command
5. rmdir command
6. cat command
7. wc command
8. head and tail commands
9. cp command
10. mv command
11. split command
12. grep command
13. sleep command

1. cd command

The 'cd' command stands for 'change directory'. It is used to navigate between directories in the file system. For example, 'cd folder_name' will change the current directory to 'folder_name'. To move up one directory level, use 'cd ..'.

2. ls command

The 'ls' command is used to list the contents of a directory. It has several options to display additional information:

- 'ls -s': Shows the size of each file in blocks.
- 'ls -l': Displays detailed information, including permissions, number of links, owner, group, file size, and modification date.
- 'ls -a': Lists all files, including hidden files (those starting with a dot).

3. man command

The 'man' command displays the manual pages for other commands. It provides detailed information about the command's usage, options, and examples. For example, 'man ls' will display the manual page for the 'ls' command.

4. mkdir command

The 'mkdir' command is used to create new directories. For example, 'mkdir new_folder' will create a directory named 'new_folder'. Multiple directories can be created at once by specifying multiple names separated by spaces.

5. rmdir command

The 'rmdir' command is used to remove empty directories. If the directory contains files or subdirectories, the command will not delete it. For example, 'rmdir empty_folder' will remove the specified empty directory.

6. cat command

The 'cat' command (short for 'concatenate') is used to display the contents of a file or to concatenate and display multiple files. For example, 'cat file.txt' will display the contents of 'file.txt'. The command can also be used to create files by redirecting output.

7. wc command

The 'wc' command stands for 'word count'. It is used to display the number of lines, words, and bytes in a file. For example, 'wc file.txt' will show these statistics for 'file.txt'. Options like '-l', '-w', and '-c' can be used to display only the number of lines, words, or bytes, respectively.

8. head and tail commands

The 'head' command displays the first few lines of a file, while the 'tail' command displays the last few lines. By default, both commands show the first or last 10 lines, respectively. You can specify the number of lines to display using the '-n' option, e.g., 'head -n 5 file.txt'.

9. cp command

The 'cp' command is used to copy files and directories. For example, 'cp source.txt destination.txt' will copy 'source.txt' to 'destination.txt'. To copy directories, use the '-r' option, e.g., 'cp -r source_dir destination_dir'.

10. mv command

The 'mv' command is used to move or rename files and directories. For example, 'mv oldname.txt newname.txt' will rename 'oldname.txt' to 'newname.txt'. It can also be used to move files to different directories.

11. split command

The 'split' command is used to split a large file into smaller files. By default, it splits the file into pieces of 1000 lines each. You can specify the size of the pieces using the '-l' option, e.g., 'split -l 500 largefile'.

12. grep command

The 'grep' command is used to search for a specific pattern in files. For example, 'grep pattern file.txt' will search for 'pattern' in 'file.txt' and display matching lines. It supports regular expressions and various options to refine the search, such as '-i' for case-insensitive search.

13. sleep command

The 'sleep' command is used to pause execution for a specified amount of time. For example, 'sleep 5' will pause for 5 seconds. It is often used in scripts to delay execution.

```
MINGW64/c/Users/Shreyas Durge
shreyas DurgelLAPTOP-CR45P2V6 MINGW64 ~
$ cd Downloads
shreyas DurgelLAPTOP-CR45P2V6 MINGW64 ~/Downloads
$ cd
shreyas DurgelLAPTOP-CR45P2V6 MINGW64 ~
$ ls
All Coding/
Appdata/
Application Data's
Contacts/
Cookies/
Documents/
Downloads/
Favorites/
Links/
Local Settings's
Music/
My Documents's
NTUSER.DAT
NTUSER.DAT{f1fe398d-311d-11ef-af0d-921b750495d5}.tm.blf
NTUSER.DAT{f1fe398d-311d-11ef-af0d-921b750495d5}.TMCContainer00000000000000000000
1.regtrans-ms
NTUSER.DAT{f1fe398d-311d-11ef-af0d-921b750495d5}.TMCContainer00000000000000000000
2.regtrans-ms
NetHood/
New folder/
OneDrive/
PrintHood/
Recent's
Searches/
SendTo/
Start Menu's
Templates/
Videos/
ansel/
battery-report.html
eclipse/
eclipse-workspace/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini
shreyas DurgelLAPTOP-CR45P2V6 MINGW64 ~
$ ls -la
./
../
.bash_history
.cache/
eclipse/
.idlerc/
.id3/
.ssh/
.vscode/
All Coding/
```

```
MINGW64/c/Users/Shreyas Durge
All Coding/
Appdata/
Application Data's
Contacts/
Cookies/
Documents/
Downloads/
Favorites/
Links/
Local Settings's
Music/
My Documents's
NTUSER.DAT
NTUSER.DAT{f1fe398d-311d-11ef-af0d-921b750495d5}.tm.blf
NTUSER.DAT{f1fe398d-311d-11ef-af0d-921b750495d5}.TMCContainer00000000000000000000
1.regtrans-ms
NTUSER.DAT{f1fe398d-311d-11ef-af0d-921b750495d5}.TMCContainer00000000000000000000
2.regtrans-ms
NetHood/
New folder/
OneDrive/
PrintHood/
Recent's
Searches/
SendTo/
Start Menu's
Templates/
Videos/
ansel/
battery-report.html
eclipse/
eclipse-workspace/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini
shreyas DurgelLAPTOP-CR45P2V6 MINGW64 ~
$ ls -l
total 19413
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 23 19:32 'All Coding/'
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 16 11:29 Appdata/
lrwxrwxrwx 1 Shreyas Durge 197121 38 Aug 16 11:29 'Application Data' -> '/'
c:/Users/Shreyas Durge/Appdata/Roaming/
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 16 11:29 Contacts/
lrwxrwxrwx 1 Shreyas Durge 197121 66 Aug 16 11:29 Cookies -> '/c:/Users/Shreyas Durge/Appdata/Local/Microsoft/Windows/NetCookies/'
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 15 23:33 Documents/
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 31 22:16 Downloads/
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 16 11:29 Favorites/
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 16 11:29 Links/
lrwxrwxrwx 1 Shreyas Durge 197121 36 Aug 16 11:29 'Local Settings' -> '/'
Users/Shreyas Durge/Appdata/Local/
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 16 11:29 Music/
lrwxrwxrwx 1 Shreyas Durge 197121 32 Aug 16 11:29 'My Documents' -> '/c:/Users/Shreyas Durge/Documents/'
-rw-r--r-- 1 Shreyas Durge 197121 14155776 Aug 31 19:00 NTUSER.DAT
-rw-r--r-- 1 Shreyas Durge 197121 65536 Aug 16 11:29 NTUSER.DAT{f1fe398d-311d-11ef-af0d-921b750495d5}.tm.blf
```

```
MINGW64/c/Users/Shreyas Durge
-rw-r--r-- 1 Shreyas Durge 197121 524288 Aug 16 11:29 NTUSER.DAT{f1fe398d-311d-11e1-af0d-921b750495d5}.TMContainer00000000000000000001.regtrans-ms
-rw-r--r-- 1 Shreyas Durge 197121 524288 Aug 16 11:29 NTUSER.DAT{f1fe398d-311d-11e1-af0d-921b750495d5}.TMContainer00000000000000000002.regtrans-ms
lrwxrwxrwx 1 Shreyas Durge 197121 74 Aug 16 11:29 NetHood -> '/c/Users/Shreyas Durge/AppData/Roaming/Microsoft/Windows/Network Shortcuts/'
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 22 17:37 'New Folder'/'
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 11 20:56 OneDrive/
lrwxrwxrwx 1 Shreyas Durge 197121 74 Aug 16 11:29 PrintHood -> '/c/Users/Shreyas Durge/AppData/Roaming/Microsoft/Windows/Printer Shortcuts/'
lrwxrwxrwx 1 Shreyas Durge 197121 63 Aug 16 11:29 Recent -> '/c/Users/Shreyas Durge/AppData/Roaming/Microsoft/Windows/Recent/'
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 16 11:29 'Saved Games'/'
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 15 23:24 Searches/
lrwxrwxrwx 1 Shreyas Durge 197121 63 Aug 16 11:29 SendTo -> '/c/Users/Shreyas Durge/AppData/Roaming/Microsoft/Windows/SendTo/'
lrwxrwxrwx 1 Shreyas Durge 197121 67 Aug 16 11:29 'Start Menu' -> '/c/Users/Shreyas Durge/AppData/Roaming/Microsoft/Windows/Start Menu/'
lrwxrwxrwx 1 Shreyas Durge 197121 66 Aug 16 11:29 Templates -> '/c/Users/Shreyas Durge/AppData/Roaming/Microsoft/Windows/Templates/'
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 31 20:52 Videos/
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 16 18:29 ansel/
-rw-r--r-- 1 Shreyas Durge 197121 70820 Aug 24 19:25 battery-report.html
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 22 17:49 eclipse/
drwxr-xr-x 1 Shreyas Durge 197121 0 Aug 22 17:57 eclipse-workspace/
-rw-r--r-- 1 Shreyas Durge 197121 720896 Aug 16 11:29 ntuser.dat.LOG1
-rw-r--r-- 1 Shreyas Durge 197121 3776512 Aug 16 11:29 ntuser.dat.LOG2
-rw-r--r-- 1 Shreyas Durge 197121 20 Aug 16 11:29 ntuser.ini

Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ who
Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ bc
bash: bc: command not found

Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ date
Sat Aug 31 22:22:11 IST 2024

Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ date +%n
n

Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ date +%n
n

Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ date +%h %n
Aug

Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ date +%m
08
```

```
MINGW64/c/Users/Shreyas Durge
Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ date +%h
Aug

Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ date +%y
24

Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ date +%c
Sat Aug 31 22:23:39 2024

Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ cal
bash: cal: command not found

Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ cd
Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ cd Desktop
bash: cd: Desktop: No such file or directory

Shreyas Durge@LAPTOP-CR45P2V6 MINGW64 ~
$ ls
All Coding/'
AppData/'
'Application Data'0
Contacts/
Cookies0
Documents/
Downloads/
Favorites/
Links/
'Local Settings'0
Music/
My Documents'0
NTUSER.DAT
NTUSER.DAT{f1fe398d-311d-11e1-af0d-921b750495d5}.TM.blf
NTUSER.DAT{f1fe398d-311d-11e1-af0d-921b750495d5}.TMContainer00000000000000000000
1.regtrans-ms
NTUSER.DAT{f1fe398d-311d-11e1-af0d-921b750495d5}.TMContainer00000000000000000000
2.regtrans-ms
NetHood0
'New Folder'/'
OneDrive/
'PrintHood'0
Recent0
'Saved Games'/'
Searches/
SendTo0
'Start Menu'0
Templates0
Videos/
ansel/
battery-report.html
eclipse/
eclipse-workspace/
```

```
MINGW64/c/Users/Shreyas Durge
eclipse-workspace/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ pwd
/c/Users/Shreyas Durge

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ mkdir
mkdir: missing operand
Try 'mkdir --help' for more information.

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ mkdir bc

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ cat Shreyas
cat: Shreyas: No such file or directory

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ cat > Shreyas
Hello Man

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ cat Shreyas
Hello Man

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ cat >> Hello
Yes I Git Bash

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ rm Shreyas

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ cp Shreyas Hello
cp: cannot stat 'Shreyas': No such file or directory

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ ls
All Coding/
AppData/
Application Data/
Contacts/
Cookies/
Documents/
Downloads/
Favorites/
Hello
Links/
Local Settings/
Music/
My Documents/
NTUSER.DAT
NTUSER.DAT[ff398d-311d-11ef-af0d-921b750495d5].TM.b1f
NTUSER.DAT[ff398d-311d-11ef-af0d-921b750495d5].TMCContainer00000000000000000000
l.regtrans-ms
NTUSER.DAT[ff398d-311d-11ef-af0d-921b750495d5].TMCContainer00000000000000000000
```

```
MINGW64/c/Users/Shreyas Durge
2.regtrans-ms
Methods
New folder/
OneDrive/
PrintHood/
Recent/
Saved Games/
Searches/
SendTo/
Start Menu/
Templates/
Videos/
encl/
battery-report.html
bc/
eclipse/
eclipse-workspace/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ cat Hello
Yes I Git Bash

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ rm -i Hello
rm: remove regular file 'Hello'?

Shreyas DurgelLAPTOP-CR45P2VG MINGW64 ~
$ ls
All Coding/
AppData/
Application Data/
Contacts/
Cookies/
Documents/
Downloads/
Favorites/
Hello
Links/
Local Settings/
Music/
My Documents/
NTUSER.DAT
NTUSER.DAT[ff398d-311d-11ef-af0d-921b750495d5].TM.b1f
NTUSER.DAT[ff398d-311d-11ef-af0d-921b750495d5].TMCContainer00000000000000000000
l.regtrans-ms
NTUSER.DAT[ff398d-311d-11ef-af0d-921b750495d5].TMCContainer00000000000000000000
2.regtrans-ms
Methods
New folder/
OneDrive/
PrintHood/
Recent/
Saved Games/
Searches/
SendTo/
```

```
MINGW64/c/Users/Shreyas Durge
SendTo
Start Menu
Templates
Videos
anse/
battery-report.html
bc/
eclipse/
eclipse-workspace/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ mv shreyas Hello
mv: cannot stat 'Shreyas': No such file or directory

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ mv Shreyas
mv: missing destination file operand after 'Shreyas'
Try 'mv --help' for more information.

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ ls
All Coding/
AppData/
Application Data
Contacts/
cookies
Documents/
Downloads/
Favorites/
Hello
Links/
Local Settings
My Documents
Music/
New Documents
NTUSER.DAT
NTUSER.DAT{f1fe398d-311d-11ef-af0d-921b750495d5}.tm.b1f
NTUSER.DAT{f1fe398d-311d-11ef-af0d-921b750495d5}.TMCContainer00000000000000000000
1.regtrans-ms
NTUSER.DAT{f1fe398d-311d-11ef-af0d-921b750495d5}.TMCContainer00000000000000000000
2.regtrans-ms
Networks
New folder/
OneDrive/
PrintToods
Recent
Saved Games/
Searches/
SendTo
Start Menu
Templates
Videos
anse/
battery-report.html
bc/
eclipse/
```

```
MINGW64/c/Users/Shreyas Durge
eclipse-workspace/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ head -3
Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ head -1 hello
Yes I Git Bash

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ tail -2 Shreyas
tail: cannot open 'Shreyas' for reading: No such file or directory

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ tail -3
Hi Hello
Hi Hello

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ nl
bash: nl: command not found

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ wc Hello
1 4 15 Hello

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ wc -l Hello
wc: unknown option -- 1
Try 'wc --help' for more information.

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ file Hello
Hello: ASCII text

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ nl hello
bash: nl: command not found

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ nl Hello
bash: nl: command not found

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ sort
Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ sort Hello
Yes I Git Bash

Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ split
Shreyas DurgelBAPT0P-CR45P2VG MINGW64 ~
$ ls
```

```
MINGW64/c/Users/Shreyas Durgu
Shreyas.Durgu@LAPTOP-CR4SP2VQ MINGW64 ~
$ ls
'All Coding'/'
AppData/'
Application Data'
Contact'/'
Cookies'
Documents/'
Downloads/'
Favorites/'
Hello
Links/'
'Local Settings'
Music/'
'My Documents'
NTUSER.DAT
NTUSER.DAT[[f1fe398d-311d-11ef-af0d-921b750495d5].TM.blf
NTUSER.DAT[[f1fe398d-311d-11ef-af0d-921b750495d5].TMCContainer00000000000000000000
L.regtrans-ms
NTUSER.DAT[[f1fe398d-311d-11ef-af0d-921b750495d5].TMCContainer00000000000000000000
2.regtrans-ms
Networks
'New folder'/'
OneDrive/'
PrintHood'
Recent'
'Saved Games'/'
Searches/'
SendTo'
'Start Menu'
Templates'
Videos/'
'wscnt/'
battery-report.html
bc/
eclipse/'
eclipse-workspace/'
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

Shreyas.Durgu@LAPTOP-CR4SP2VQ MINGW64 ~
$ split -2 Hello
Shreyas.Durgu@LAPTOP-CR4SP2VQ MINGW64 ~
$ rm Hello

Shreyas.Durgu@LAPTOP-CR4SP2VQ MINGW64 ~
$ history
1 cd Desktop
2 ls
3 ls
4 cd Desktop
5 ls
6 ls -a
7 cd downloads
8 cd Downloads
9 cd
```



```
MINGW64/c/Users/Shreyas Durge
Shreyas_DurgeLAPTOP-CR45P2VQ MINGW64 ~
$ history
1 cd Desktop
2 ls
3 ls
4 cd Desktop
5 ls
6 ls -a
7 cd Downloads
8 cd Downloads
9 cd
10 ls
11 ls -a
12 ls -l
13 who
14 bc
15 date
16 date +\n
17 date +%n
18 date +%h %n"
19 date +%m
20 date +%h
21 date +%y
22 date +%c
23 cal
24 cd
25 cd Desktop
26 ls
27 pwd
28 mkdir
29 mkdir bc
30 cat Shreyas
31 cat > Shreyas
32 cat Shreyas
33 cat >> Hello
34 rm Shreyas
35 cp Shreyas Hello
36 ls
37 cat Hello
38 rm -i Hello
39 ls
40 mv Shreyas Hello
41 mv Shreyas
42 ls
43 head -3
44 head -3 hello
45 tail -2 Shreyas
46 tail -3
47 nl
48 wc Hello
49 wc -l Hello
50 file Hello
51 nl hello
52 nl Hello
53 sort
54 sort Hello
55 split
56 ls
```

```
MINGW64/c/Users/Shreyas Durge
5 ls
6 ls -a
7 cd Downloads
8 cd Downloads
9 cd
10 ls
11 ls -a
12 ls -l
13 who
14 bc
15 date
16 date +\n
17 date +%n
18 date +%h %n"
19 date +%m
20 date +%h
21 date +%y
22 date +%c
23 cal
24 cd
25 cd Desktop
26 ls
27 pwd
28 mkdir
29 mkdir bc
30 cat Shreyas
31 cat > Shreyas
32 cat Shreyas
33 cat >> Hello
34 rm Shreyas
35 cp Shreyas Hello
36 ls
37 cat Hello
38 rm -i Hello
39 ls
40 mv Shreyas Hello
41 mv Shreyas
42 ls
43 head -3
44 head -3 hello
45 tail -2 Shreyas
46 tail -3
47 nl
48 wc Hello
49 wc -l Hello
50 file Hello
51 nl hello
52 nl Hello
53 sort
54 sort Hello
55 split
56 ls
57 split -2 Hello
58 rm Hello
59 history
$
```