

Basic Linux Commands

ls: Lists the contents of a directory.

cd: Changes the current directory.

pwd: Displays the present working directory.

mkdir: Creates a new directory.

rmdir: Removes an empty directory.

touch: Creates a new empty file.

rm: Removes files or directories.

cp: Copies files or directories.

mv: Moves or renames files or directories.

cat: Displays the contents of a file.

echo: Displays a line of text or variable value.

chmod: Changes the permissions of a file or directory.

chown: Changes the ownership of a file or directory.

grep: Searches for patterns within files.

man: Displays the manual for a command.

```
amans@Rudra MINGW64 /c/git/.git (main)
$ git init
Reinitialized existing Git repository in C:/git/.git/.git/

amans@Rudra MINGW64 /c/git/.git (main)
$ touch file.txt

amans@Rudra MINGW64 /c/git/.git (main)
$ git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        COMMIT_EDITMSG
        HEAD
        config
        description
        hooks/
        index
        info/
        logs/
        objects/
        refs/

nothing added to commit but untracked files present (use "git add" to track)

amans@Rudra MINGW64 /c/git/.git (main)
$ git add file.txt

amans@Rudra MINGW64 /c/git/.git (main)
$ git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        COMMIT_EDITMSG
        HEAD
        config
        description
        hooks/
        index
        info/
        logs/
        objects/
        refs/

nothing added to commit but untracked files present (use "git add" to track)

amans@Rudra MINGW64 /c/git/.git (main)
$ git log
commit a6076c9131714e5ef9949a4188ca3e2cfb63e4c0 (HEAD -> main, origin/main)
Author: Aman <aman.sorout_cs.aim123@gl.a.ac.in>
Date:   Mon Aug 4 09:38:05 2025 +0530

    first commit
```

```
amans@Rudra MINGW64 /c/git/.git (main)
```

```
$ git branch
```

```
* main
```

```
amans@Rudra MINGW64 /c/git/.git (main)
```

```
$ git diff
```

```
amans@Rudra MINGW64 /c/git/.git (main)
```

```
$ git switch -c values
```

```
Switched to a new branch 'values'
```

```
amans@Rudra MINGW64 /c/git/.git (values)
```

```
$ git checkout -b values2
```

```
Switched to a new branch 'values2'
```

```
amans@Rudra MINGW64 /c/git/.git (values2)
```

```
$ git merge values
```

```
Already up to date.
```

```
amans@Rudra MINGW64 /c/git/.git (values2)
```

```
$ git clean -n
```

```
Would remove COMMIT_EDITMSG
```

```
Would remove HEAD
```

```
Would remove config
```

```
Would remove description
```

```
Would remove index
```

```
amans@Rudra MINGW64 /c/git/javaproject (master)
$ git remote add origin https://github.com/amansorout729/FullStack

amans@Rudra MINGW64 /c/git/javaproject (master)
$ git branch -m master main

amans@Rudra MINGW64 /c/git/javaproject (main)
$ git push -f origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 231 bytes | 231.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/amansorout729/FullStack
+ a6076c9...f874b60 main -> main (forced update)
```

```
amans@Rudra MINGW64 /c/git (main)
$ mkdir javaproject

amans@Rudra MINGW64 /c/git (main)
$ cd javaproject

amans@Rudra MINGW64 /c/git/javaproject (main)
$ touch hello.java

amans@Rudra MINGW64 /c/git/javaproject (main)
$ ls
hello.java

amans@Rudra MINGW64 /c/git/javaproject (main)
$ javac Hello.java

amans@Rudra MINGW64 /c/git/javaproject (main)
$ java hello
Error: Could not find or load main class hello
Caused by: java.lang.ClassNotFoundException: hello

amans@Rudra MINGW64 /c/git/javaproject (main)
$ java Hello
Error: Could not find or load main class Hello
Caused by: java.lang.ClassNotFoundException: Hello

amans@Rudra MINGW64 /c/git/javaproject (main)
$ javac hello.java

amans@Rudra MINGW64 /c/git/javaproject (main)
$ java hello
Error: Could not find or load main class hello
Caused by: java.lang.ClassNotFoundException: hello

amans@Rudra MINGW64 /c/git/javaproject (main)
$ nano hello.java

amans@Rudra MINGW64 /c/git/javaproject (main)
$ java hello
Error: Could not find or load main class hello
Caused by: java.lang.ClassNotFoundException: hello

amans@Rudra MINGW64 /c/git/javaproject (main)
$ git init
Initialized empty Git repository in C:/git/javaproject/.git/

amans@Rudra MINGW64 /c/git/javaproject (master)
$ git add hello.java

amans@Rudra MINGW64 /c/git/javaproject (master)
$ git commit -m "Add hello.java to print hello"
[master (root-commit) f874b60] Add hello.java to print hello
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 hello.java

amans@Rudra MINGW64 /c/git/javaproject (master)
$ git remote add origin https://github.com/amansorout729/FullStack
```