

GIT COMMANDS

Terminal window showing the command `divum@divum-Latitude-7490: ~$ sudo apt-get remove git` and its output. The output shows the removal of git and its dependencies, including a long list of packages that were automatically installed and are no longer required.

```
divum@divum-Latitude-7490: ~$ sudo apt-get remove git
[sudo] password for divum:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  git-man gyp javascript-common libc-ares2 liberror-perl libjs-inherits
  libjs-ls-typedarray libjs-psl libjs-typedarray-to-buffer libpython2-stdlib
  libpython2.7-minimal libpython2.7-stdlib libssl-dev libuv1-dev node-abbrev
  node-gly node-ansi node-ansi-align node-ansi-regex node-ansi-styles
  node-ansistyles node-aproba node-archy node-are-we-there-yet node-asap
  node-asn1 node-assert-plus node-asynckit node-aws-sign2 node-aws4
  node-balanced-match node-bcrypt-pbkdf node-bl node-bluebird node-boxen
  node-brace-expansion node-builtin-modules node-builtins node-cacache
  node-callsite node-caseless node-caseless node-chalk node-chown
  node-ci-info node-cl-bboxes node-clui node-clone node-co node-color-convert
  node-color-name node-colors node-columnify node-combined-stream
  node-concat-map node-concat-stream node-config-chain node-configstore
  node-console-control-strings node-copy-concurrently node-core-util-is
  node-corepack node-crypto-random-string node-cyclist node-dashdash
  node-debug node-decanelize node-decompress-response node-deep-extend
  node-defaults node-define-properties node-delayed-stream node-delegates
  node-detect-indent node-detect-newline node-dot-prop node-duplexer3
  node-duplexify node-ecc-jsbn node-editor node-encoding node-end-of-stream
  node-err-code node-errno node-es6-promise node-escape-string-regexp
  node-execa node-extend node-extendint node-fast-deep-equal node-find-up
  node-flush-write-stream node-forever-agent node-form-data node-from2
  node-fs-vacuum node-fs-write-stream-atomic node-fs.realpath
  node-function-bind node-gauge node-genfun node-get-caller-file
  node-get-stream node-getpass node-glob node-got node-graceful-fs
  node-har-schema node-har-validator node-has-flag node-has-symbol-support-x
  node-has-to-string-tag-x node-has-unicode node-hosted-git-info
  node-http-signature node-lcov-lite node-ifferr node-inport-lazy
  node-inurmurhash node-inflight node-inherits node-int node-invert-kv node-ip
  node-ip-regex node-is-npm node-is-obj node-is-object node-is-path-inside
  node-is-plain-obj node-is-regex-allowed node-is-stream node-is-typedarray
  node-isarray node-isexe node-istream node-isurl node-jsbn
  node-json-parse-better-errors node-json-schema node-json-schema-traverse
  node-json-stable-stringify node-json-stringify-safe node-jsonify
  node-jsonparse node-jsonstream node-jspmin node-latest-version
  node-lazy-property node-lcid node-limbox node-lockfile node-lockfile
  node-lodash node-lodash-packages node-lowercase-keys node-lru-cache
  node-make-dir node-nem node-nm node-nm-types node-mimic-fn
  node-mimic-response node-minimatch node-ministat node-mississippi
  node-mkdirp node-nm node-nm-concurrently node-nm node-nm-stream node-npm
  node-normalize-package-data node-npm-bundled node-npm-package-arg
  node-npm-run-path node-npmlog node-number-is-nan node-oauth-sign
  node-object-assign node-once node-opener node-os-locale node-os-tmpdir
  node-osew node-p-cancelable node-p-finally node-p-is-promise node-p-lint
  node-p-locate node-p-timeout node-package-json node-parallel-transform
  node-path-exists node-path-is-absolute node-path-is-inside
  node-performance-now node-pify node-prepend-http node-process-nextick-args
  node-promise-inflight node-promise-retry node-promzard node-protocol-list
  node-prr node-pseudomap node-psl node-pump node-punycode node-punycode
  node-q node-q-npm node-read node-read-package-json
  node-readable-stream node-registrv-auth-token node-registrv-wurl node-request
```

[illegible]

Initializing a repository

git init

Staging files

git add file1.js # Stages a single file

git add file1.js file2.js # Stages multiple files

git add *.js # Stages with a pattern

git add . # Stages the current directory and all its content

Viewing the status

git status # Full status

git status -s # Short status

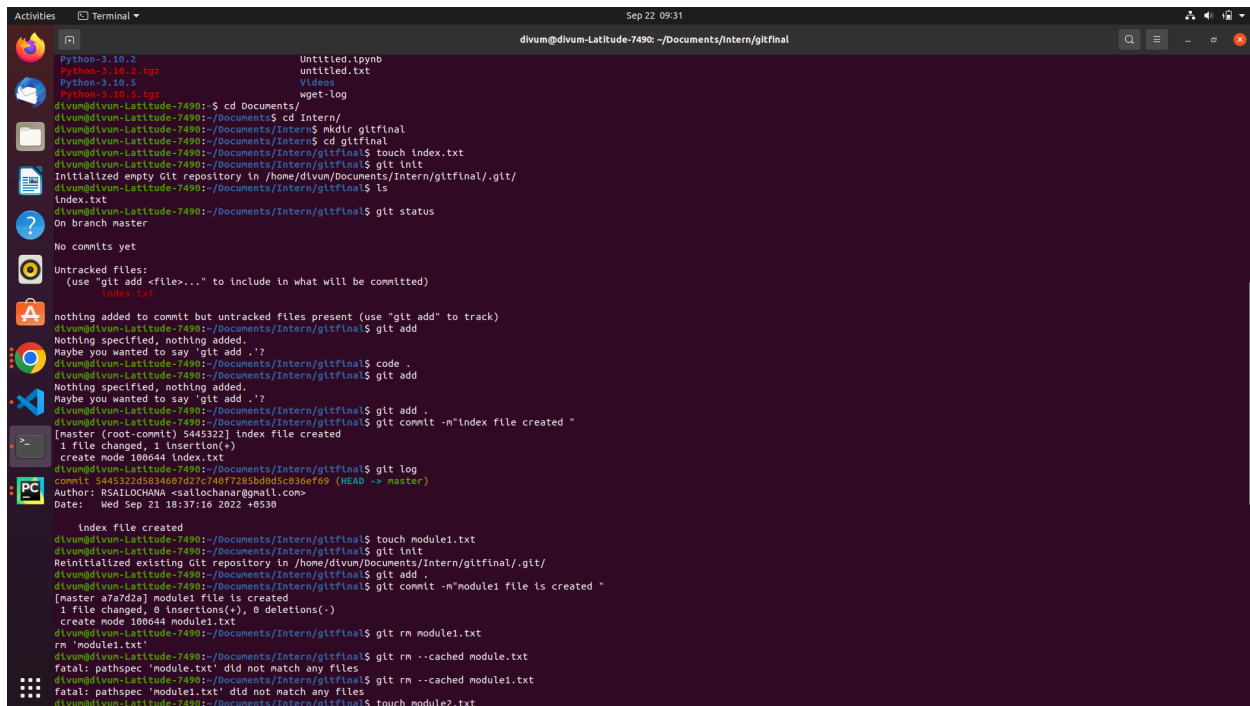
Committing the staged files

git commit -m "Message" # Commits with a one-line message

git commit # Opens the default editor to type a long message

Skipping the staging area

git commit -am "Message"



```
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal
Python-3.10.2
Python-3.10.2.tgz
Python-3.10.5
Python-3.10.5.tgz
Untitled.ipynb
untitled.txt
Videos
wget-log

divum@divum-Latitude-7490:~/Documents$ cd Documents/
divum@divum-Latitude-7490:~/Documents$ cd Intern/
divum@divum-Latitude-7490:~/Documents/Intern$ mkdir gitfinal
divum@divum-Latitude-7490:~/Documents/Intern$ cd gitfinal
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ touch index.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git init
Initialized empty Git repository in /home/divum/Documents/Intern/gitfinal/.git/
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ ls
index.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git status
On branch master
No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  index.txt

nothing added to commit but untracked files present (use "git add" to track)
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git add
Nothing specified, nothing added.
Maybe you wanted to say "git add ."?
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ code .
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git add
Nothing specified, nothing added.
Maybe you wanted to say "git add ."?
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git add .
[master (root-commit) 5445321] index file created
1 file changed, 1 insertion(+)
create mode 100644 index.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log
commit 544532255346074027c740f7728b0bde934ef89 (HEAD -> master)
Author: BSAILOCHANA <sailochana@gmail.com>
Date: Wed Sep 21 18:37:16 2022 +0530

    index file created

divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ touch module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git init
Reinitialized existing Git repository in /home/divum/Documents/Intern/gitfinal/.git/
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git add
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git commit -m"module1 file is created "
[master a7a7d2a] module1 file is created
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git rm module1.txt
rm 'module1.txt'
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git rm --cached module.txt
fatal: pathspec 'module.txt' did not match any files
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git rm --cached module1.txt
fatal: pathspec 'module1.txt' did not match any files
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ touch module2.txt
```

Removing files

git rm file1.js # Removes from working directory and staging area
git rm --cached file1.js # Removes from staging area only

Renaming or moving files

git mv file1.js file1.txt

Viewing the staged/unstaged changes

git diff # Shows unstaged changes
git diff --staged # Shows staged changes
git diff --cached # Same as the above

Viewing the history

git log # Full history
git log --oneline # Summary
git log --reverse # Lists the commits from the oldest to the newest

```
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal
Python-3.10.2: Untitled.ipynb
Python-3.10.2.tgz: untitled.txt
Python-3.10.5: Videos
Python-3.10.5.tgz: wget-log
divum@divum-Latitude-7490: ~/Documents$ cd Intern/
divum@divum-Latitude-7490: ~/Documents/Intern$ mkdir gittfinal
divum@divum-Latitude-7490: ~/Documents/Intern$ cd gittfinal
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ touch index.txt
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git init
Initialized empty Git repository in /home/divum/Documents/Intern/gittfinal/.git/
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ ls
index.txt
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git status
On branch master

No commits yet

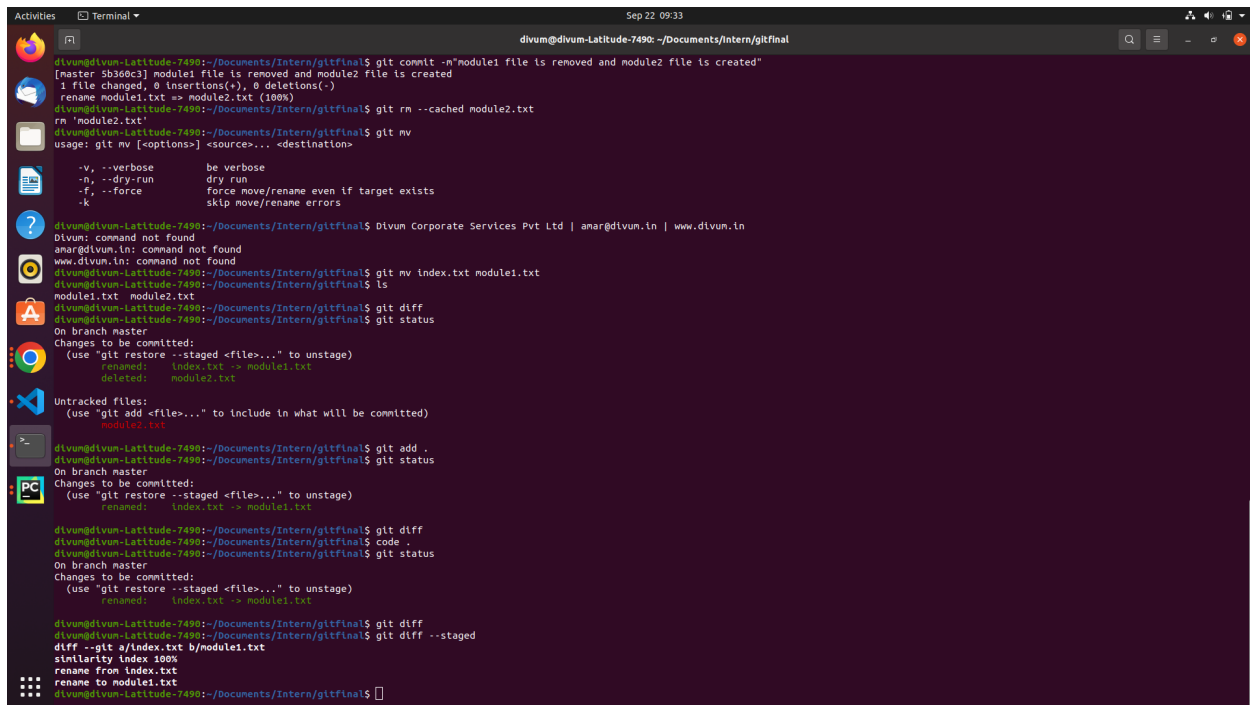
Untracked files:
  (use "git add <file>..." to include in what will be committed)
  index.txt

nothing added to commit but untracked files present (use "git add" to track)
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git add
Nothing specified, nothing added.
Maybe you wanted to say 'git add .'?
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ code
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git add
Nothing specified, nothing added.
Maybe you wanted to say 'git add .'?
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git add .
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git commit -n "index file created"
[master (root-commit) 5445322] index file created
1 file changed, 1 insertion(+)
create mode 100644 index.txt
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git log
commit 5445322d5834607d2c740f7285bd0dc036ef69 (HEAD -> master)
Author: RSAILOCHANA <sailochana@gmail.com>
Date: Wed Sep 21 18:37:16 2022 +0330

    index file created
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ touch module1.txt
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git init
Reinitialized existing Git repository in /home/divum/Documents/Intern/gittfinal/.git/
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git add .
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git commit -n "module1 file is created"
[master a7a72a] module1 file is created
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 module1.txt
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git rm module1.txt
rm 'module1.txt'
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git rm --cached module1.txt
fatal: pathspec 'module1.txt' did not match any files
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ git rm --cached module1.txt
fatal: pathspec 'module1.txt' did not match any files
divum@divum-Latitude-7490: ~/Documents/Intern/gittfinal$ touch module2.txt
```

Viewing a commit

git show 921a2ff # Shows the given commit



```
divum@divum-Latitude-7490: ~/Documents/Intern/gltfinal
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git commit -m"module1 file is removed and module2 file is created"
[master 5b3d8c3] module1 file is removed and module2 file is created
1 file changed, 0 insertions(+), 0 deletions(-)
rename module1.txt => module2.txt (100%)
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git rm --cached module2.txt
rm 'module2.txt'
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git mv
usage: git mv [<options>] <source>... <destination>
    -v, --verbose          be verbose
    -n, --dry-run          dry run
    -f, --force            force move/rename even if target exists
    -k                    skip move/rename errors
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ Divum Corporate Services Pvt Ltd | anarg@divum.in | www.divum.in
Divum: command not found
anarg@divum.in: command not found
www.divum.in: command not found
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git mv index.txt module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ ls
module1.txt  module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git diff
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    renamed:   index.txt -> module1.txt
    deleted:   module2.txt
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git add .
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    renamed:   index.txt -> module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git diff
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ code .
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    renamed:   index.txt -> module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git diff
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$ git diff --staged
diff --git a/index.txt b/module1.txt
similarity index 100%
rename from index.txt
rename to module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gltfinal$
```

git show HEAD # Shows the last commit

git show HEAD~2 # Two steps before the last commit

git show HEAD:file.js # Shows the version of file.js stored in the last commit

Unstaging files (undoing git add)

git restore --staged file.js # Copies the last version of file.js from repo to index

Discarding local changes

git restore file.js # Copies file.js from index to working directory

git restore file1.js file2.js # Restores multiple files in working directory

git restore . # Discards all local changes (except untracked files)

git clean -fd # Removes all untracked files

Restoring an earlier version of a file

git restore --source=HEAD~2 file.js

```
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal
divum@divum-Latitude-7490:~$ cd Documents/Intern
divum@divum-Latitude-7490:~/Documents/Intern$ mkdir gitfinal
divum@divum-Latitude-7490:~/Documents/Intern$ cd gitfinal/
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ touch index.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git init
Initialized empty Git repository in /home/divum/Documents/Intern/gitfinal/.git/
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ ls
index.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index.txt

nothing added to commit but untracked files present (use "git add" to track)
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git add .
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git commit -m"index file created"
[master (root-commit) 2a2a7a3] index file created
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.txt
```

```
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log
commit 2a2a7a3cf99d97b87e9a23f763d2b0f3110695fe (HEAD -> master)
Author: RSAILOCHANA <sailochanar@gmail.com>
Date:   Thu Oct 6 09:45:21 2022 +0530

    index file created
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ touch module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git init
Reinitialized existing Git repository in /home/divum/Documents/Intern/gitfinal/.git/
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git add .
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git commit -m"module1 file created"
[master 076afcf] module1 file created
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git rm module1.txt
rm 'module1.txt'
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git rm --cached module.txt
fatal: pathspec 'module.txt' did not match any files
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git rm --cached module1.txt
fatal: pathspec 'module1.txt' did not match any files
```

```
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal
fatal: pathspec 'module1.txt' did not match any files
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ touch module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git init
Reinitialized existing Git repository in /home/divum/Documents/Intern/gitfinal/.git/
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git add .
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git commit -m "module2 file created"
[master a7efc11] module2 file created
1 file changed, 0 insertions(+), 0 deletions(-)
rename module1.txt => module2.txt (100%)
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git rm --cached module2.txt
rm 'module2.txt'
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git mv index.txt module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ ls
module1.txt module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:   index.txt -> module1.txt
        deleted:   module2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        module2.txt

divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git add .
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:   index.txt -> module1.txt

divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git diff
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ code .
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git diff
diff --git a/module1.txt b/module1.txt
index e69de29..26ecb3e 100644
--- a/module1.txt
+++ b/module1.txt
@@ -0,0 +1 @@
+No newline at end of file
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git diff staged
fatal: ambiguous argument 'staged': unknown revision or path not in the working tree.
Use '-' to separate paths from revisions, like this:
'git <command> [-<revision>...] -- [-<file>...]'
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git diff --staged
diff --git a/index.txt b/module1.txt
similarity index 100%
rename from index.txt
rename to module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git diff --cached
diff --git a/index.txt b/module1.txt
similarity index 100%
rename from index.txt
```

Browsing History

Viewing the history

git log --stat # Shows the list of modified files

git log --patch # Shows the actual changes (patches)

Filtering the history

git log -3 # Shows the last 3 entries

git log --author="Mosh"

git log --before="2020-08-17"

git log --after="one week ago"

git log --grep="GUI" # Commits with "GUI" in their message

git log -S"GUI" # Commits with "GUI" in their patches

git log hash1..hash2 # Range of commits

git log file.txt # Commits that touched file.txt

Formatting the log output

git log --pretty=format:"%an committed %H"

Creating an alias

git config --global alias.lg "log --oneline"

```
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log
commit a7efc11f073fc979ab775212f1e9bdc149b9d7 (HEAD -> master)
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:48:52 2022 +0530

    module2 file created

commit 076afcf876536Saccb2dc548f5568d085dc2e5
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:46:12 2022 +0530

    module1 file created

commit 2a2a7a3cf9a9d97b87e9a23f763d2b0f3110695fe
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:45:21 2022 +0530

    index file created
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --oneline
a7efc11 (HEAD -> master) module2 file created
076afcf module1 file created
2a2a7a3 index file created
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --reverse
commit 2a2a7a3cf9a9d97b87e9a23f763d2b0f3110695fe
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:45:21 2022 +0530

    index file created

commit 076afcf876536Saccb2dc548f5568d085dc2e5
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:46:12 2022 +0530

    module1 file created

commit a7efc11f073fc979ab775212f1e9bdc149b9d7 (HEAD -> master)
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:48:52 2022 +0530

    module2 file created
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show 2a2a7a3
commit 2a2a7a3cf9a9d97b87e9a23f763d2b0f3110695fe
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:45:21 2022 +0530

    index file created

diff --git a/index.txt b/index.txt
new file mode 100644
index 0000000..e69de29
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD
commit a7efc11f073fc979ab775212f1e9bdc149b9d7 (HEAD -> master)
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:48:52 2022 +0530

    module2 file created
```

```
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log
commit a7efc11f073fc979ab775212f1e9bdc149b9d7 (HEAD -> master)
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:48:52 2022 +0530

    module2 file created

diff --git a/module1.txt b/module2.txt
similarity index 100%
rename from module1.txt
rename to module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD:2
fatal: ambiguous argument 'HEAD:2': unknown revision or path not in the working tree.
Use '.' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...]'
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD:2
fatal: ambiguous argument '2': unknown revision or path not in the working tree.
Use '.' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...]'
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD:2
fatal: ambiguous argument 'HEAD:2': unknown revision or path not in the working tree.
Use '.' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...]'
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD:2
fatal: ambiguous argument 'HEAD=2': unknown revision or path not in the working tree.
Use '.' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...]'
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD:module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD:module1.txt
fatal: Path 'module1.txt' exists on disk, but not in 'HEAD'.
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ ls
module1.txt module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD
commit a7efc11f073fc979ab775212f1e9bdc149b9d7 (HEAD -> master)
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:48:52 2022 +0530

    module2 file created

diff --git a/module1.txt b/module2.txt
similarity index 100%
rename from module1.txt
rename to module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ nano module2.txt

Use "fg" to return to nano.

[1]: Stopped      nano module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD:module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git diff
diff --git a/module1.txt b/module1.txt
index 0000000..e69de29
```



```
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD
commit a7efc11f073fc979ab775212f1e9bcd149b9d7 (HEAD -> master)
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:48:52 2022 +0530

    module2 file created

diff --git a/module1.txt b/module2.txt
similarity index 100%
rename from module1.txt
rename to module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ nano module2.txt

Use "fg" to return to nano.

[1]+  Stopped                  nano module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD:module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git diff
diff --git a/module1.txt b/module1.txt
index e69de29..266cb3e 100644
--- a/module1.txt
+++ b/module1.txt
@@ -0,0 +1 @@
+Hey There....!
\ No newline at end of file
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --oneline
7efc11 (HEAD -> master) module2 file created
076afcf module1 file created
2a2a7a3 index file created
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git add .
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git commit -n"Commits which I made...!"
[master 82ec35c] Commits which I made...!
3 files changed, 1 insertion(+), 1 deletion(-)
create mode 100644 .module2.txt.swp
delete mode 100644 index.txt
create mode 100644 module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git restore --staged module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git restore --staged module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git restore module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git add .
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ cat module1.txt
Hey There....!
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git clear -fd
git: 'clear' is not a git command. See 'git --help'.

The most similar command is
clean
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git clean -fd
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --stat
commit 82ec35c08bcff905b0d4c0efe3ed8ca71ed7c2b5 (HEAD -> master)
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 10:00:21 2022 +0530

    Commits which I made...!

.module2.txt.swp | Bin 0 -> 1024 bytes
```

```
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --stat
commit 82ec35c08bcff905b0d4c0efe3ed8ca71ed7c2b5 (HEAD -> master)
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 10:00:21 2022 +0530

    Commits which I made...!

.module2.txt.swp | Bin 0 -> 1024 bytes
index.txt        | 0
module1.txt      | 1 +
3 files changed, 1 insertion(+)

commit a7efc11f073fc979ab775212f1e9bcd149b9d7
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:48:52 2022 +0530

    module2 file created

module1.txt => module2.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)

commit 076afcf8765365accb2dc548f55668d085dc2e5
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 09:46:12 2022 +0530

[2]+  Stopped                  git log --stat
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --patch
commit 82ec35c08bcff905b0d4c0efe3ed8ca71ed7c2b5 (HEAD -> master)
Author: RSAILOCHANA <sallochanar@gmail.com>
Date: Thu Oct 6 10:00:21 2022 +0530

    Commits which I made...!

diff --git a/.module2.txt.swp b/.module2.txt.swp
new file mode 100644
index 0000000..2d8b101
Binary files /dev/null and b/.module2.txt.swp differ
diff --git a/index.txt b/index.txt
deleted file mode 100644
index e69de29..0000000
diff --git a/module1.txt b/module1.txt
new file mode 100644
index 0000000..266cb3e
--- /dev/null
+++ b/module1.txt
@@ -0,0 +1 @@
+Hey There....!
\ No newline at end of file

commit a7efc11f073fc979ab775212f1e9bcd149b9d7

[3]+  Stopped                  git log --patch
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log -k
fatal: unrecognized argument: -k
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --author="Sai"
fatal: unrecognized argument: --author=Sai
```


Viewing a commit

git show HEAD~2

git show HEAD~2:file1.txt # Shows the version of file stored in this commit

Comparing commits

git diff HEAD~2 HEAD # Shows the changes between two commits

git diff HEAD~2 HEAD file.txt # Changes to file.txt only

Checking out a commit

git checkout dad47ed # Checks out the given commit

git checkout master # Checks out the master branch

Finding a bad commit

git bisect start

git bisect bad # Marks the current commit as a bad commit

git bisect good ca49180 # Marks the given commit as a good commit

git bisect reset # Terminates the bisect session

```
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --after "-created"
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --after "-one hour"
commit 82ec35c08bcff905b0d4c0efe3ed8ca71ed7c2b5 (HEAD -> master)
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 10:00:21 2022 +0530

    Commits which I made...!

commit a7efc11f073fc979ab775212f1e9bdc149b9d7
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 09:48:52 2022 +0530

    module2 file created

commit 070a9cf8765365acccb2dc548f5560d085dc2e5
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 09:46:12 2022 +0530

    module1 file created

commit 2a2a7a3cf99d97b67e9a23f763d2b0f3110495fe
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 09:45:21 2022 +0530

    index file created

[5]+ Stopped git log --after "-one hour"
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --after "-today"
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --grep-'GUI'
fatal: unrecognized argument: --grep-'GUI'
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --grap-'GUI'
fatal: unrecognized argument: --grap-'GUI'
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git show HEAD~2
commit 070a9cf8765365acccb2dc548f5560d085dc2e5
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 09:46:12 2022 +0530

    module1 file created

diff --git a/module1.txt b/module1.txt
new file mode 100644
index 0000000..e69de29
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --author="Sal"
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git log --after="one week ago"
commit 82ec35c08bcff905b0d4c0efe3ed8ca71ed7c2b5 (HEAD -> master)
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 10:00:21 2022 +0530

    Commits which I made...!

commit a7efc11f073fc979ab775212f1e9bdc149b9d7
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 09:48:52 2022 +0530

    module2 file created
```

Finding contributors

git shortlog

Viewing the history of a file

git log file.txt # Shows the commits that touched file.txt

git log --stat file.txt # Shows statistics (the number of changes) for file.txt

git log --patch file.txt # Shows the patches (changes) applied to file.txt

Finding the author of lines

git blame file.txt # Shows the author of each line in file.txt

Tagging

git tag v1.0 # Tags the last commit as v1.0

git tag v1.0 5e7a828 # Tags an earlier commit

git tag # Lists all the tags

git tag -d v1.0 # Deletes the given tag

```
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git log --after '"created"'
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git log --after '"one hour"'
commit 82ec15c0b0c7f905b0d4c0fe3ed6ca71ed7c2b5 (HEAD -> master)
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 10:00:21 2022 +0530

    module2 file created

    Commits which I made...!

commit a7efc11f073fc979ab775212f1e9bcd149b9d7
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 09:48:52 2022 +0530

    module2 file created

commit 87aefcf876536Saccb2dc548f55668d85dc2e5
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 09:46:12 2022 +0530

    module1 file created

commit 2a2a7a3cf99d97b7e9a23f763d2b0f3110695fe
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 09:45:21 2022 +0530

    index file created

[5]: Stopped git log --after '"one hour"'
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git log --after '"today"'
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git log --grep-'GUI'
fatal: unrecognized argument: --grep-'GUI'
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git log --grap-'GUI'
fatal: unrecognized argument: --grap-'GUI'
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git show HEAD-2
commit 87aefcf876536Saccb2dc548f55668d85dc2e5
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 09:46:12 2022 +0530

    module1 file created

diff --git a/module1.txt b/module1.txt
new file mode 100644
index 0000000..e69de29
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git log --author="sal"
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git log --after="one week ago"
commit 82ec15c0b0c7f905b0d4c0fe3ed6ca71ed7c2b5 (HEAD -> master)
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 10:00:21 2022 +0530

    Commits which I made...!

commit a7efc11f073fc979ab775212f1e9bcd149b9d7
Author: RSAILOCHANA <saillochanar@gmail.com>
Date: Thu Oct 6 09:48:52 2022 +0530

    module2 file created
```

Branching & Merging

Managing branches

git branch bugfix # Creates a new branch called bugfix

git checkout bugfix # Switches to the bugfix branch

git switch bugfix # Same as the above
git switch -C bugfix # Creates and switches
git branch -d bugfix # Deletes the bugfix branch

```
divum@divum-Latitude-7490: ~/Documents/Intern/gitlfinal
$ git config --global alias.lg "log --oneline"
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git diff HEAD~2 HEAD
diff --git a/module2.txt.swp b/module2.txt.swp
new file mode 100644
index 0000000..2db8101
Binary files /dev/null and b/module2.txt.swp differ
diff --git a/module1.txt b/module1.txt
index e99de29..266cb3e 100644
--- a/module1.txt
+++ b/module1.txt
@@ -0,0 +1 @@
Hey There...!
\ No newline at end of file
diff --git a/index.txt b/module2.txt
similarity index 100%
rename from index.txt
rename to module2.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git checkout master
Already on 'master'
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git bisect start
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git bisect bad
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git log --oneline
82ec35c (HEAD -> master; refs/bisect/bad) Commits which I made...!
a7efc11 module2 file created
076afcf module1 file created
2a2a7a3 index file created
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git bisect good 076afcf
Bisecting: 0 revisions left to test after this (roughly 0 steps)
[a7efc11f073fc979ab775212f1e9bcd149b9d7] module2 file created
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git bisect reset
Previous HEAD position was a7efc11 module2 file created
Switched to branch 'master'
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git shortlog
RSAILOCHANA (4):
    index file created
    module1 file created
    module2 file created
    Commits which I made...!
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git blame module1.txt
82ec35c (RSAILOCHANA 2022-10-06 10:00:21 +0530 I) Hey There...!
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git tag v1.0
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git tag v1.0^C
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git tag v1.0 a7efc11
fatal: tag 'v1.0' already exists
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git tag
v1.0
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git branch bugfix
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git checkout bugfix
Switched to branch 'bugfix'
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git switch bugfix
Already on 'bugfix'
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git log master..bugfix
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git diff master..bugfix
divum@divum-Latitude-7490:~/Documents/Intern/gitlfinal$ git stash push -m "New tax rules"
```

Comparing branches

git log master..bugfix # Lists the commits in the bugfix branch not in master
git diff master..bugfix # Shows the summary of changes

Stashing

git stash push -m "New tax rules" # Creates a new stash
git stash list # Lists all the stashes
git stash show stash@{1} # Shows the given stash
git stash show 1 # shortcut for stash@{1}
git stash apply 1 # Applies the given stash to the working dir
git stash drop 1 # Deletes the given stash
git stash clear # Deletes all the stashes

Merging

git merge bugfix # Merges the bugfix branch into the current branch
git merge --no-ff bugfix # Creates a merge commit even if FF is possible
git merge --squash bugfix # Performs a squash merge

git merge --abort # Aborts the merge

Viewing the merged branches

git branch --merged # Shows the merged branches

git branch --no-merged # Shows the unmerged branches

Rebasing

git rebase master # Changes the base of the current branch

Cherry picking

git cherry-pick dad47ed # Applies the given commit on the current branch

```
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git stash list
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git merge bugfix
Already up to date.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git merge --no-ff bugfix
Already up to date.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git merge --squash bugfix
(nothing to squash)Already up to date.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git branch --merged
* bugfix
  master
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git branch --no-merged
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git rebase master
Current branch bugfix is up to date.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git cherry-pick 076afcf
CONFLICT (add/add): Merge conflict in module1.txt
Auto-merging module1.txt
On branch bugfix
You are currently cherry-picking commit 076afcf.
  (all conflicts fixed: run "git cherry-pick --continue")
  (use "git cherry-pick --skip" to skip this patch)
  (use "git cherry-pick --abort" to cancel the cherry-pick operation)

nothing to commit, working tree clean
The previous cherry-pick is now empty, possibly due to conflict resolution.
If you wish to commit it anyway, use:

    git commit --allow-empty

Otherwise, please use 'git cherry-pick --skip'
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git clone https://github.com/SalochanaR/Sample_repo.git
Cloning into 'Sample_repo'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 12 (delta 0), reused 9 (delta 0), pack-reused 0
Unpacking objects: 100% (12/12), 1.29 KiB | 440.00 KiB/s, done.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git fetch origin master
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git fetch origin
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git fetch
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>
```

```
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git stash list
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git merge bugfix
Already up to date.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git merge --no-ff bugfix
Already up to date.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git merge --squash bugfix
(nothing to squash)Already up to date.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git branch --merged
* bugfix
  master
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git branch --no-merged
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git rebase master
Current branch bugfix is up to date.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git cherry-pick 076afcf
CONFLICT (add/add): Merge conflict in module1.txt
Auto-merging module1.txt
On branch bugfix
You are currently cherry-picking commit 076afcf.
  (all conflicts fixed: run "git cherry-pick --continue")
  (use "git cherry-pick --skip" to skip this patch)
  (use "git cherry-pick --abort" to cancel the cherry-pick operation)

nothing to commit, working tree clean
The previous cherry-pick is now empty, possibly due to conflict resolution.
If you wish to commit it anyway, use:

    git commit --allow-empty

Otherwise, please use 'git cherry-pick --skip'
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git clone https://github.com/SallochanaR/sample_repo.git
Cloning into 'sample_repo'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 12 (delta 0), reused 9 (delta 0), pack-reused 0
Unpacking objects: 100% (12/12), 1.29 KiB | 440.00 KiB/s, done.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git fetch origin master
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git fetch origin
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git fetch
divum@divum-Latitude-7490: ~/Documents/Intern/gitfinal$ git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>
```

Collaboration

Cloning a repository

git clone url

Syncing with remotes

- git fetch origin master # Fetches master from origin
- git fetch origin # Fetches all objects from origin
- git fetch # Shortcut for “git fetch origin”
- git pull # Fetch + merge
- git push origin master # Pushes master to origin
- git push # Shortcut for “git push origin master”

Sharing tags

- git push origin v1.0 # Pushes tag v1.0 to origin
- git push origin —delete v1.0

Sharing branches

- git branch -r # Shows remote tracking branches
- git branch -vv # Shows local & remote tracking branches
- git push -u origin bugfix # Pushes bugfix to origin

git push -d origin bugfix # Removes bugfix from origin

Managing remotes

git remote # Shows remote repos

git remote add upstream url # Adds a new remote called upstream

git remote rm upstream # Removes upstream

```
nothing to commit, working tree clean
The previous cherry-pick is now empty, possibly due to conflict resolution.
If you wish to commit it anyway, use:

  git commit --allow-empty

Otherwise, please use 'git cherry-pick --skip'
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git clone https://github.com/Salochana/sample_repo.git
Cloning into 'sample_repo'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 12 (delta 0), reused 9 (delta 0), pack-reused 0
Unpacking objects: 100% (12/12), 1.29 KiB | 440.00 KiB/s, done.
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git fetch origin master
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git fetch origin
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git fetch
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=<remote>/<branch> bugfix
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git push
fatal: No configured push destination.
Either specify the URL from the command-line or configure a remote repository using

    git remote add <name> <url>

and then push using the remote name

    git push <name>
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git push origin v1.0
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
divum@divum-Latitude-7490:~/Documents/Intern/gitfinal$ git push origin --delete v1.0
```

Rewriting History

Undoing commits

git reset --soft HEAD^ # Removes the last commit, keeps changed staged

git reset --mixed HEAD^ # Unstages the changes as well

git reset --hard HEAD^ # Discards local changes

Reverting commits

git revert 72856ea # Reverts the given commit

git revert HEAD~3.. # Reverts the last three commits

git revert --no-commit HEAD~3..

Recovering lost commits

git reflog # Shows the history of HEAD

git reflog show bugfix # Shows the history of bugfix pointer

Amending the last commit

git commit --amend

Interactive rebasing

git rebase -i HEAD~5

```
divum@divum-Latitude-7490: ~/Documents/Intern/gitFinal
Please make sure you have the correct access rights
and the repository exists.
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git push -u master bugfix
fatal: 'master' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git push -u main bugfix
fatal: 'main' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git remote
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git reset --soft HEAD^
fatal: bad revision 'HEAD~3..'
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git revert HEAD~2
error: your local changes would be overwritten by revert.
hint: commit your changes or stash them to proceed.
fatal: revert failed
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git reflog
a7efc11 (HEAD -> bugfix) HEAD@{0}: reset: moving to HEAD^
02ec35c (tag: v1.0, master) HEAD@{1}: checkout: moving from bugfix to bugfix
02ec35c (tag: v1.0, master) HEAD@{2}: checkout: moving from master to bugfix
02ec35c (tag: v1.0, master) HEAD@{3}: checkout: moving from a7efc11f073fc979ab775212f1e9bcd149b9d7 to master
a7efc11 (HEAD -> bugfix) HEAD@{4}: checkout: moving from master to a7efc11f073fc979ab775212f1e9bcd149b9d7
02ec35c (tag: v1.0, master) HEAD@{5}: checkout: moving from master to master
02ec35c (tag: v1.0, master) HEAD@{6}: commit: Commits which I made...!
a7efc11 (HEAD -> bugfix) HEAD@{7}: commit: module2 file created
070a4cf HEAD@{8}: commit: module1 file created
02a3a3a HEAD@{9}: commit (initial): index file created
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git reflog show bugfix
a7efc11 (HEAD -> bugfix) bugfix@{0}: reset: moving to HEAD^
02ec35c (tag: v1.0, master) bugfix@{1}: branch: Created from master
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git commit --amend
hint: Waiting for your editor to close the file... ^Z
[?] Stopped
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git rebase -i HEAD~5
fatal: invalid upstream 'HEAD~5'
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git rebase -i HEAD~2
error: cannot rebase: Your index contains uncommitted changes.
error: Please commit or stash them.
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git commit -n"committed"
[bugfix 03e8ba8] committed
 3 files changed, 1 insertion(+)
 create mode 100644 module2.txt.swp
 delete mode 100644 index.txt
 create mode 100644 module1.txt
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$ git rebase -i HEAD~2
error: invalid line 3: done
You can fix this with 'git rebase --edit-todo' and then run 'git rebase --continue'.
Or you can abort the rebase with 'git rebase --abort'.
divum@divum-Latitude-7490:~/Documents/Intern/gitFinal$
```