1.Create a directory 'project dir' & cd to 'project dir'.

HP@LAPTOP-CLV2S3BG MINGW64 ~ (master|MERGING)

$ mkdir PROJECT\_DIR

mkdir: cannot create directory ‘PROJECT\_DIR’: File exists

HP@LAPTOP-CLV2S3BG MINGW64 ~ (master|MERGING)

$ cd PROJECT\_DIR

3.Create a new file index.html.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ touch index.html

4. Check the git status. You should find index.htmlas untracked file.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git status

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

ignore

info.txt

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

5. Stage the index.html file.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git add index.html

6. Commit index.html

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git commit -m "New file added"

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

ignore

info.txt

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

7. Make few changes in index.html & create a new file info.txt file.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ nano index.html

8. Check git status. You should find index.html& info.txt as untracked files.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

Untracked files:

(use "git add <file>..." to include in what will be committed)

ignore

info.txt

no changes added to commit (use "git add" and/or "git commit -a")

9. Configure GIT to ignore all txt files.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ nano .gitignore

10. Again check the git status. You should find only index.htmlas untracked file.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

ignore

info.txt

no changes added to commit (use "git add" and/or "git commit -a")

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git -d .gitignore

unknown option: -d

usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]

[--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]

[-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]

[--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]

[--super-prefix=<path>] [--config-env=<name>=<envvar>]

<command> [<args>]

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

ignore

info.txt

no changes added to commit (use "git add" and/or "git commit -a")

11. State & commit index.html

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git add index.html

warning: LF will be replaced by CRLF in index.html.

The file will have its original line endings in your working directory

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git commit -m "Modified file"

[master e06d3ee] Modified file

1 file changed, 1 insertion(+), 1 deletion(-)

12. Log all your comments so far.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git log

commit e06d3eedf7064a7055d0b711b35d90a5014d6e98 (HEAD -> master)

Date: Thu May 20 12:45:41 2021 +0530

Modified file

commit a179fdf019dfefc1a0ff2dd63d6525fb182b8e4c

Date: Tue May 18 08:44:46 2021 +0530

Revert "New file modified"

This reverts commit 1ccd7930e7243b7c5fbfd48f1c6b79df70de3934.

commit 1ccd7930e7243b7c5fbfd48f1c6b79df70de3934

Date: Tue May 18 08:33:17 2021 +0530

New file modified

commit 070e4e1f346e26daea36e054a10ad0c8fca6027d

Date: Tue May 18 00:48:25 2021 +0530

added modified file

commit 8a3279ca689f5e1c853c3f49c4bbef33cd1dc130

Date: Tue May 18 00:32:41 2021 +0530

Added new file

13. Make some changes in index.html.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ nano index.html

14. Revert the change made in the previous step using git command.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git checkout --index.html

error: unknown option `index.html'

usage: git checkout [<options>] <branch>

or: git checkout [<options>] [<branch>] -- <file>...

-b <branch> create and checkout a new branch

-B <branch> create/reset and checkout a branch

-l create reflog for new branch

--guess second guess 'git checkout <no-such-branch>' (default)

--overlay use overlay mode (default)

-q, --quiet suppress progress reporting

--recurse-submodules[=<checkout>]

control recursive updating of submodules

--progress force progress reporting

-m, --merge perform a 3-way merge with the new branch

--conflict <style> conflict style (merge or diff3)

-d, --detach detach HEAD at named commit

-t, --track set upstream info for new branch

-f, --force force checkout (throw away local modifications)

--orphan <new-branch>

new unparented branch

--overwrite-ignore update ignored files (default)

--ignore-other-worktrees

do not check if another worktree is holding the given ref

-2, --ours checkout our version for unmerged files

-3, --theirs checkout their version for unmerged files

-p, --patch select hunks interactively

--ignore-skip-worktree-bits

do not limit pathspecs to sparse entries only

--pathspec-from-file <file>

read pathspec from file

--pathspec-file-nul with --pathspec-from-file, pathspec elements are separated with NUL character

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git checkout -- index.html

15. Again change index.html.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ nano index.html

16. Stage index.html

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git add index.html

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git status

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

modified: index.html

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

ignore

info.txt

17. Revert back the last stage.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git restore --staged index.html

18. Rename add command to 'my-add.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ alias my\_add="git add"

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ mu\_add index.html

bash: mu\_add: command not found

19. Using my add command Stage index.htmlagain & commit the changes.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ my\_add index.html

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git commit -m "Modified the file again"

[master d80e13f] Modified the file again

1 file changed, 1 insertion(+), 1 deletion(-)

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git log --oneline

d80e13f (HEAD -> master) Modified the file again

e06d3ee Modified file

a179fdf Revert "New file modified"

1ccd793 New file modified

070e4e1 added modified file

8a3279c Added new file

20. Revert the last commit.

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)

$ git log

commit d80e13f5b5a254074e7a9bf22f3f901d6eb67fab (HEAD -> master)

Date: Thu May 20 12:56:11 2021 +0530

Modified the file again

commit e06d3eedf7064a7055d0b711b35d90a5014d6e98

Date: Thu May 20 12:45:41 2021 +0530

Modified file

commit a179fdf019dfefc1a0ff2dd63d6525fb182b8e4c

Date: Tue May 18 08:44:46 2021 +0530

Revert "New file modified"

This reverts commit 1ccd7930e7243b7c5fbfd48f1c6b79df70de3934.

commit 1ccd7930e7243b7c5fbfd48f1c6b79df70de3934

Date: Tue May 18 08:33:17 2021 +0530

New file modified

commit 070e4e1f346e26daea36e054a10ad0c8fca6027d

Date: Tue May 18 00:48:25 2021 +0530

added modified file

commit 8a3279ca689f5e1c853c3f49c4bbef33cd1dc130

Date: Tue May 18 00:32:41 2021 +0530

Added new file

HP@LAPTOP-CLV2S3BG MINGW64 ~/PROJECT\_DIR (master)