Section 0 -Use GIT as local VCS. Steps to follow:

1. Create a directory ‘project\_dir’ &amp; cd to ‘project\_dir’.

2. Initialize git version database. (git init)

3. Create a new file index.html.

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

5. Stage the index.html file.

6. Commit index.html

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

satya@SATYA MINGW64 /c (master)

$ mkdir project\_dir

satya@SATYA MINGW64 /c (master)

$ cd project\_dir

satya@SATYA MINGW64 /c/project\_dir (master)

$ git init

Initialized empty Git repository in C:/project\_dir/.git/

satya@SATYA MINGW64 /c/project\_dir (master)

$ git status

On branch master

No commits yet

Untracked files:

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

index.html

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

satya@SATYA MINGW64 /c/project\_dir (master)

$ git add index.html

satya@SATYA MINGW64 /c/project\_dir (master)

$ git commit -m 'index.html commited as step6'

[master 31686cb] index.html commited as step6

1 file changed, 2 insertions(+), 2 deletions(-)

satya@SATYA MINGW64 /c/project\_dir (master)

$ git status

On branch master

Untracked files:

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

info.txt

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

satya@SATYA MINGW64 /c/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)

info.txt

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

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

9. Configure GIT to ignore all txt files.

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

11. State &amp; commit index.html

satya@SATYA MINGW64 /c/project\_dir (master)

$ touch .gitignore

satya@SATYA MINGW64 /c/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

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

satya@SATYA MINGW64 /c/project\_dir (master)

$ git add index.html

satya@SATYA MINGW64 /c/project\_dir (master)

$ git commit -m 'index.html commited as step11'

[master 59a99e0] index.html commited as step11

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

12. Log all your comments so far.

13. Make some changes in index.html.

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

satya@SATYA MINGW64 /c/project\_dir (master)

$ git log

commit 59a99e08e620ff0f135083619728d77e9b9efa3e (HEAD -> master)

Author: satya2405 <121710409033@gitam.in>

Date: Thu Oct 21 17:28:31 2021 +0530

index.html commited as step11

commit 31686cbe5619907a6492b8fc70dcadbdaa39cac1

Author: satya2405 <121710409033@gitam.in>

Date: Thu Oct 21 17:17:42 2021 +0530

index.html commited as step6

commit 236f5c790f696c4df08d7d10187e2f8e91aed845

Author: satya2405 <121710409033@gitam.in>

Date: Thu Oct 21 16:58:21 2021 +0530

15. Again change index.html.

16. Stage index.html

17. Revert back the last stage.

18. Rename ‘add’ command to ‘my-add’.

19. Using my\_add command Stage index.html again &amp; commit the changes.

20. Revert the last commit.

satya@SATYA MINGW64 /c/project\_dir (master)

$ git checkout

satya@SATYA MINGW64 /c/project\_dir (master)

$ git add index.html

satya@SATYA MINGW64 /c/project\_dir (master)

$ git revert HEAD index.html

fatal: bad revision 'index.html'

satya@SATYA MINGW64 /c/project\_dir (master)

$ git reset HEAD index.html

Unstaged changes after reset:

M index.html

satya@SATYA MINGW64 /c/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

info.txt

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

satya@SATYA MINGW64 /c/project\_dir (master)

$ git config --global alias.my-add add

satya@SATYA MINGW64 /c/project\_dir (master)

$ git my-add index.html

satya@SATYA MINGW64 /c/project\_dir (master)

$ git commit -m 'index.html commited as step19'

[master e4b85a0] index.html commited as step19

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

satya@SATYA MINGW64 /c/project\_dir (master)

$ git log

commit e4b85a03aa3caf6e879da9f0b0b2599d467d932d (HEAD -> master)

Author: satya2405 <121710409033@gitam.in>

Date: Thu Oct 21 17:37:13 2021 +0530

index.html commited as step19

commit 59a99e08e620ff0f135083619728d77e9b9efa3e

Author: satya2405 <121710409033@gitam.in>

Date: Thu Oct 21 17:28:31 2021 +0530

index.html commited as step11

commit 31686cbe5619907a6492b8fc70dcadbdaa39cac1

Author: satya2405 <121710409033@gitam.in>

Date: Thu Oct 21 17:17:42 2021 +0530

index.html commited as step6

commit 236f5c790f696c4df08d7d10187e2f8e91aed845

Author: satya2405 <121710409033@gitam.in>

Date: Thu Oct 21 16:58:21 2021 +0530

hello

satya@SATYA MINGW64 /c/project\_dir (master)

$ git reset --soft HEAD^

satya@SATYA MINGW64 /c/project\_dir (master)

$ git log

commit 59a99e08e620ff0f135083619728d77e9b9efa3e (HEAD -> master)

Author: satya2405 <121710409033@gitam.in>

Date: Thu Oct 21 17:28:31 2021 +0530

index.html commited as step11

commit 31686cbe5619907a6492b8fc70dcadbdaa39cac1

Author: satya2405 <121710409033@gitam.in>

Date: Thu Oct 21 17:17:42 2021 +0530

index.html commited as step6

commit 236f5c790f696c4df08d7d10187e2f8e91aed845

Author: satya2405 <121710409033@gitam.in>

Date: Thu Oct 21 16:58:21 2021 +0530